HYDROSTATIC PRESSURE TEST

647 Miles / 20" Crude Pipe Line, Patoka, IL to Corsicana, TX

Test Section 21

Foreman, AR

MP 160.62 - MP 166.54



Memorandum

Date: 4/28/06 Subject: Hydrotest Review & Endorsement

To: <Hydrotest Report and HCA cc: <>

Baseline Assessment File>

From: <Chris Gorman>

I've completed the review of the hydrostatic test report for Test Section - 21 (H21) for the Corsicana to Patoka Crude Line. It is consistent with my knowledge of the testing operations and facility and confirms we had a good test. The hydrotest and report documentation are accurate and thorough and will satisfy our needs for Data Integration, Risk & Threat Analysis, and Preventive & Mitigative Measures Analysis needed to comply with the HCA regulations and the testing requirements of DOT CFR Title 49, Part 195, Subpart E.

Chris D. Gorman

Pipeline Risk & Integrity Specialist Exxon Mobil Pipeline Company

Anis Jamos

1604 South 15th St. Corsicana, TX 75110 903-654-5323

903-654-5302 fax 903-654-1324 cell

647 Miles /20" Crude Line, Patoka, IL to Corsicana, TX Test Section 21 MP 160.62 - MP 166.54

Date and Time:

March 3, 2006, from 9:15 AM to 1:15PM. - (Strength Test) March 3, 2006, from 2:30 PM to 6:30 PM. - (Leak Test)

Facility Tested:

The test section consisted of 5.92 miles of 20" x 0.312" w.t., X-42 ERW pipe

Personnel Present:

Conducted by: S.C. Hong- Test Engineer - BJ Process & Pipeline Services

Witnessed by: Ricky Boulware - EMPCO - Tech Lead

Procedure:

On March 2, 2006, the piping was filled with water and the air was allowed to bleed through 2" valves. The test section was filled with water by moving water from previously hydrotested sections. The test section was pressurized to approximately 700 psig with BJ's positive-displacement pump at a rate of 15 psi/minute, and was allowed to stabilize over night. The test manifold, pressure recorder, and deadweight tester were connected to the test section as shown in the attached sketch.

The test section was pressurized at a rate of 10 psi/minute to 830 psi (approximately 80% of strength test pressure) by injecting water at MP 160.58 with a positive-displacement pump. Pressurization was halted for approximately an hour while waiting for daylight and to allow for stabilization. The test section was then pressurized at a rate of 5 Psi/mm to test pressure of 1033 Psi. The pressure stabilized at 8: 15 AM of March 3, 2006 at 1034 psi at the test point and the 4 hour strength test commenced. Once the 4 hour strength test is deemed successful, as per EMPCO instruction, the test pressure is reduced approximately 100 psi. The leak test pressure settled at 935 psi.

Conclusion:

The strength test started at 9:15 AM on March 3rd, 2006 and was held for 4 hours starting at a pressure of 1034 psi. Over the duration of the strength test, there was a pressure gain of 1.0 psi.

The leak test started at 2:30 PM on March 3rd, 2006 and was held for 4 hours starting at a pressure of 935 psi. Over the duration of the leak test, there was a pressure gain of 1.0 psi. At this point the leak test was deemed successful

The pressure trends over the duration of the leak test are within the accuracy of the instrumentation or with in calculated fluctuations caused by temperature changes. The tests were deemed successful.

Therefore, m my judgment, this constitutes a valid pressure test meeting the requirements of the Department of Transportation Code of Federal Regulations Title 49, Part 195 Subpart E.

Samuel C. Hong Testing Engineer BJ Process & Pipeline Services

CARRIER NAME Mobil Pipeline Company
TESTING COMPANY NAME 5J Process & Pipeline Services
PRESSURE TEST NUMBER Test Section 21 Strength Test DATE 3/3/2006
THIS IS TO CERTIFY THAT THE PIPE LINE OR PIPELINE SECTION DESCRIBED BELOW WAS HYDROSTATICALL PRESSURE TESTED IN ACCORDANCE WITH THE FOLLOWING PROCEDURE:
PIPE LINE 20" Crude FROM Patoka, IL TO Corsicana T
DESCRIPTION OF FACILITY TESTE Test Section 21 MP 160.62 - MP 166.54
SECTION LENGTH 5 92 miles PIPE O.D. 20" WALL THICKNESS 0.312" GR. X-42 TYPE ERW
LOCATION OF TEST PRESSURE RECORDER CONNECT_MP 160.62 (See attached sketch)
LOCATION OF TEMPERATURE RECORDER BULB MP 160 62 (See attached sketch)
INITIAL PRESSURE AT POINT OF TEST 1034 psig TIME 9:15 AM
INITIAL TEMPERATURE OF TEST SECT. 53 5 °F ELEV. AT POINT OF TEST 320 ft MSL
INITIAL PRESSURE AT LOWEST ELEVATION POINT IN SECTION 1046 1 PSIG;
ELEVATION 292 H MSL; MP. 163.12 THE PRESSURE WAS MEASURED X CALCULATE
INITIAL PRESSURE AT HIGHEST ELEVATION POINT IN SECTION 979 9 PSIG;
ELEVATION 445 ft MSL; MP. 166.21 THE PRESSURE WAS MEASURED X CALCULATE
FINAL PRESSURE AT POINT OF TEST 1035 PSIG TIME 1.15 PM
FINAL TEMPERATURE OF TEST SECT. 53.9 °F
TOTAL FLUID INJ. N/A GAL. TOTAL FLUID WITHDRAWN N/A GAL.
NET CHANGE IN VOLUME OF THE TEST SEC1 N/A GAL.
LENGTH OF TEST 4 HRS. 0 MIN; TESTING FLUIL Water SPEC GVTY. 1.00 TEMP. N/A **
INITIAL PRESSURE 79 % OF SMYS AT THE TEST SITE 75 % AT HIGH POINT 80 % AT LOW POINT.
MINIMUM TEST PRESSURE DURING A SELECTED 4 HOUR PERIOD (TEST PRESSURE) 1034 PSIG
MAXIMUM ALLOWABLE OPERATING PRESSURE 827 PSIG. at test site. BASED ON % SMYS OR 80% of minimum test pressure at test site.
WERE THERE ANY LEAKS? YES X NO; IF YES, EXPLAIN
WAS EVERY COMPONENT THAT WILL BE SUBJECTED TO THE SYSTEM WORKING PRESSURE
HYDROSTATICALLY TESTED? X YES NO; IF NO, EXPLAIN
PRESSURE RECORDER MAKE AND SERIAL N_Chandler 25602 ITT Barton 242E-47061
TEMPERATURE RECORDER MAKE AND SERIAL NC ITT Barton 242E-47061 ITT Barton 242E-55357
REMARKS: Tested in accordance with D.O.T. CFR Title 49 Part 195 Subpart E.
CONDUCTED BY Sam Hong TITLE BJ PPS Test Engineer
CERTIFIED BY Chris Gorman And Janvan TITLE Risk & Integrity Specialist EMPCo
WITNESSED BY Ricky Boulware TITLE EMPCO Test Site Inspector
WITNESSED BY Chree Forman TITLE REIS
NOTE: SEE DOT HOURS MANUAL

CARRIER NAME Mobil Pipeline Company	
TESTING COMPANY NAME BJ Process & Pipeline Servi	ces
PRESSURE TEST NUMBER Test Section 21 Leak Test	DATE 3/3/2006
THIS IS TO CERTIFY THAT THE PIPE LINE OR PIPELINE PRESSURE TESTED IN ACCORDANCE WITH THE FOLLO	SECTION DESCRIBED BELOW WAS HYDROSTATICALLY DWING PROCEDURE:
PIPE LINE 20" Crude	FROM Patoka, IL TO Corsidana TX
DESCRIPTION OF FACILITY TESTE Test Section 21	
	WALL THICKNESS 0.312" GR. X-42 TYPE ERW
LOCATION OF TEST PRESSURE RECORDER CONNECTI	ON MP 160.62 (See attached sketch)
LOCATION OF TEMPERATURE RECORDER BULB	
INITIAL PRESSURE AT POINT OF TEST 935	
INITIAL TEMPERATURE OF TEST SECT. 53.8 °F	
INITIAL PRESSURE AT LOWEST ELEVATION POINT II	
	SSURE WAS MEASURED CALCULATED
INITIAL PRESSURE AT HIGHEST ELEVATION POINT IN S	
ELEVATION N/A MSL; MP. N/A THE PRE	SSURE WAS MEASURED CALCULATED
FINAL PRESSURE AT POINT OF TEST 936 F	PSIG TIME 6.30 PM
FINAL TEMPERATURE OF TEST SECT. 54.0 °F	
TOTAL FLUID INJ. N/A GAL. TOTAL	AL FLUID WITHDRAWN N/A GAL.
NET CHANGE IN VOLUME OF THE TEST SECT. N/	
LENGTH OF TEST 4 HRS. 0 MIN: TESTING FLUI	D <u>Water</u> SPEC GVTY. 1.00 TEMP. N/A °F
INITIAL PRESSURE N/A % OF SMYS AT THE TEST SITE	N/A % AT HIGH POINT N/A % AT LOW POINT.
	4 HOUR PERIOD (TEST PRESSURE) 935 PSIG
MAXIMUM ALLOWABLE OPERATING PRESSURE	827 PSIG. at test site BASED ON % SMYS
	sig at the test site during the 4 hour strength test
WERE THERE ANY LEAKS? YES X NO:	IF YES, EXPLAIN
WAS EVERY COMPONENT THAT WILL BE SUBJECTED TO	O THE SYSTEM WORKING PRESSURE
HYDROSTATICALLY TESTED? X YES NO;	IF NO, EXPLAIN
	II NO, EAFLAIN
PRESSURE RECORDER MAKE AND SERIAL NO Chandle	er 25602 ITT Barton 242E-47061
TEMPERATURE RECORDER MAKE AND SERIAL NO. 1	T Barton 242E-47061 ITT Barton 242E-55357
REMARKS: Tested in accordance with D.O.T. CFR Title 49	Part 195 Subpart E.
COMPUCTED BY	
CERTIFIED BY Chris German John James	TITLE BJ PPS Test Engineer
OERTH TEB BY SIMIS GORMAN STATE OF THE STATE	TITLE Risk & Integrity Specialist, EMPCo
WITNESSED BY Ricky Boulware	TITLE EMPCO Test Site Inspector
NOTE: SEE DOT LIQUIDS MANUAL UNG FOR FORM	TITLE K+Z3

		M	OBIL PIF	E LINE CO	MPANY	
						FROM TO
HYDROSTATIO	PRESSURE TEST	DATA SHE	ET		DATE	3/3/2006 3/3/2006
	TEST NUMBER.	Section 21			TIME	9:15 AM 1:15 PM
	DESCRIPTION	647 Miles	/ 20" Coide	Pine Line Do	itoka il to C	nreinana TY
			- MP 166.		nord, it to c	Orsicaria, TA
		Strength		<i>-</i>		· · · · · · · · · · · · · · · · · · ·
	DEADWEIGHT TE	STER NO.	Chandler		25602	
	PRESSURE RECO		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		242E-47061	
TEN	PERATURE RECO	RDER NO.	ITT Barton		242E-55357	
		AMBIENT	PIPE	GALLONS	GALLONS	
TIME	PRESSURE	TEMP	TEMP	INJECTED	BLED OFF	COMMENTS
	(PSIG)	(°F)	(°F)	(GAL)	(GAL)	
09:15 AM	1034.0	57.5	53.5	N/A	N/A	Start 4 Hour Strength Test
09:30 AM	1034.0	58.0	53.7	а	17	
		58.3	53.8	-	4	Slight increase in pipe wall
09:45 AM	1034.0					
09:45 AM 10:00 AM	1034.0	58.5	54.0	14	a	temperature due to warmer water
10:00 AM 10:15 AM			54.0 54.0	13	is is	
10:00 AM 10:15 AM 10:30 AM	1034.0	58.5				temperature due to warmer water
10:00 AM 10:15 AM 10:30 AM 10:45 AM	1034.0 1034.0 1034.0 1034.5	58.5 59.5	54.0	**		temperature due to warmer water from frac tanks injected into pipeline
10:00 AM 10:15 AM 10:30 AM 10:45 AM 11:00 AM	1034.0 1034.0 1034.0	58.5 59.5 60.0	54.0 54.0	**	**	temperature due to warmer water from frac tanks injected into pipeline
10:00 AM 10:15 AM 10:30 AM 10:45 AM 11:00 AM 11:15 AM	1034.0 1034.0 1034.0 1034.5	58.5 59.5 60.0 60.2	54.0 54.0 54.0	11	it 19	temperature due to warmer water from frac tanks injected into pipeline
10:00 AM 10:15 AM 10:30 AM 10:45 AM 11:00 AM 11:15 AM 11:30 AM	1034.0 1034.0 1034.0 1034.5 1034.5	58.5 59.5 60.0 60.2 61.0	54.0 54.0 54.0 54.0	11	" "	temperature due to warmer water from frac tanks injected into pipeline
10:00 AM 10:15 AM 10:30 AM 10:45 AM 11:00 AM 11:15 AM 11:30 AM 11:45 AM	1034.0 1034.0 1034.0 1034.5 1034.5	58.5 59.5 60.0 60.2 61.0 61.5	54.0 54.0 54.0 54.0 54.0		# ", ", ", ", ", ", ", ", ", ", ", ", ",	temperature due to warmer water from frac tanks injected into pipeline
10:00 AM 10:15 AM 10:30 AM 10:45 AM 11:00 AM 11:15 AM 11:30 AM 11:45 AM 12:00 PM	1034.0 1034.0 1034.0 1034.5 1034.5 1034.5 1034.5	58.5 59.5 60.0 60.2 61.0 61.5 62.0	54.0 54.0 54.0 54.0 54.0 54.0		r	temperature due to warmer water from frac tanks injected into pipeline
10:00 AM 10:15 AM 10:30 AM 10:45 AM 11:00 AM 11:15 AM 11:30 AM 11:45 AM 12:00 PM 12:15 PM	1034.0 1034.0 1034.0 1034.5 1034.5 1034.5 1034.5 1034.5	58.5 59.5 60.0 60.2 61.0 61.5 62.0 62.8	54.0 54.0 54.0 54.0 54.0 54.0 54.0		** ** ** ** ** ** ** ** ** ** ** ** **	temperature due to warmer water from frac tanks injected into pipeline
10:00 AM 10:15 AM 10:30 AM 10:45 AM 11:00 AM 11:15 AM 11:30 AM 11:45 AM 12:00 PM	1034.0 1034.0 1034.0 1034.5 1034.5 1034.5 1034.5 1034.5 1035.0	58.5 59.5 60.0 60.2 61.0 61.5 62.0 62.8 63.0	54.0 54.0 54.0 54.0 54.0 54.0 54.0 54.0		** ** ** ** ** ** ** ** ** ** ** ** **	temperature due to warmer water from frac tanks injected into pipeline
10:00 AM 10:15 AM 10:30 AM 10:45 AM 11:00 AM 11:15 AM 11:15 AM 11:45 AM 12:00 PM 12:15 PM 12:30 PM 12:45 PM	1034.0 1034.0 1034.0 1034.5 1034.5 1034.5 1034.5 1034.5 1035.0	58.5 59.5 60.0 60.2 61.0 61.5 62.0 62.8 63.0 64.0	54.0 54.0 54.0 54.0 54.0 54.0 54.0 54.0			temperature due to warmer water from frac tanks injected into pipeline
10:00 AM 10:15 AM 10:30 AM 10:45 AM 11:00 AM 11:15 AM 11:30 AM 11:45 AM 12:00 PM 12:15 PM 12:30 PM	1034.0 1034.0 1034.0 1034.5 1034.5 1034.5 1034.5 1034.5 1035.0 1035.0	58.5 59.5 60.0 60.2 61.0 61.5 62.0 62.8 63.0 64.0 64.5	54.0 54.0 54.0 54.0 54.0 54.0 54.0 54.0	-		temperature due to warmer water from frac tanks injected into pipeline

		М	IOBIL PIF	PE LINE CO	MPANY		
						FROM	то
HYDROSTATIC	PRESSURE TEST	DATA SHE	EET		DATE	3/3/2006	3/3/2006
	TEST NUMBER	Section 21	1		TIME	2:30 PM	6:30 PM
	DESCRIPTION	647 Miles	/ 20" Crude	Pipe Line, Pa	atoka, IL to C	orsicana, TX	
		MP 160.62	2 - MP 166.	54		······································	
		Leak Test		····	····		
	Page 4 501 4 1001 00						
	DEADWEIGHT TE				25602	······································	
	PRESSURE RECO				242E-47061	·	
IEN	IPERATURE RECO	RDER NO.	ITT Barton		242E-55357	•	
	1	- AAADIFAIT			T]	
TIME	DOCCO INC	AMBIENT		ł.	GALLONS	i	
INVE	PRESSURE (PSIG)	TEMP	TEMP	INJECTED		COMMEN	TS
02:30 PM	935.0	(°F)	(°F)	(GAL)	(GAL)		
02:45 PM	935.0	66.7	53.8	N/A	N/A	Start 4 Hour Leak Test	
03:00 PM	935.0	66.7	53.8				
03:15 PM	935.0	67.0 67.1	53.8		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
03:30 PM	935.0	68.0	53.8 53.8				
03:45 PM	935.0	68.0	53.8	······································			
04:00 PM	935.5	67.5	53.9		a		
04:15 PM	935.5	67.5	53.9		,		
04:30 PM	935.5	67.3	53.9	**	"		· · · · · · · · · · · · · · · · · · ·
04:45 PM	935.5	67.0	54.0	"	н		
05:00 PM	935.5	66.5	54.0	*	- 7		
05:15 PM	935.5	66.5	54.0	п	и		
05:30 PM	935.5	66.0	54.0		u		
05:45 PM	936.0	65.5	54.0				
06:00 PM	936.0	65.0	54.0	n	,		
06:15 PM	936.0	63.5	54.0		**		
06:30 PM	936.0	63.0	54.0	n .	"	End 4 Hour Leak Test	
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			1				· · · · · · · · · · · · · · · · · · ·

HYDROSTATIC PRESSURE TEST

647 Miles / 20" Crude Pipe Line, Patoka, IL to Corsicana, TX

Test Section 22

Foreman, AR

MP 160.62 - MP 127.88

Memorandum

Date: 4/28/06 Subject: Hydrotest Review & Endorsement

To: < Hydrotest Report and HCA cc: <>

Baseline Assessment File>

From: <Chris Gorman>

I've completed the review of the hydrostatic test report for Test Section - 22 (H22) for the Corsicana to Patoka Crude Line. It is consistent with my knowledge of the testing operations and facility and confirms we had a good test. The hydrotest and report documentation are accurate and thorough and will satisfy our needs for Data Integration, Risk & Threat Analysis, and Preventive & Mitigative Measures Analysis needed to comply with the HCA regulations and the testing requirements of DOT CFR Title 49, Part 195, Subpart E.

Chris D. Gorman

Pipeline Risk & Integrity Specialist ExxonMobil Pipeline Company

And Gamow

1604 South 15th St. Corsicana, TX 75110 903-654-5323 903-654-5302 fax

903-654-1324 cell

647 Miles /20" Crude Line, Patoka, IL to Corsicana, TX Test Section 22 MP 127.88 - MP 160.62

Date and Time:

March 3, 2006, from 8:15 AM to 12:15 PM. - (Strength Test) March 3, 2006, from 1:30 PM to 5:30 PM. - (Leak Test)

Facility Tested:

The test section consisted of 32.74 miles of 20" x 0.312" w.t., X-42 ERW pipe

Personnel Present: .

Conducted by: S.C. Hong - Test Engineer - BJ Process & Pipeline Services Witnessed by: Ricky Boulware - EMPCO - Test Site Inspector

Procedure:

On March 2, 2006, the piping was filled with water and the air was allowed to bleed through 2" valves. The test section was filled with water by moving water from previously hydrotested sections. The test section was pressurized to approximately 700 psig with BJ's positive-displacement pump at a rate of. 15 psi / minute, and was allowed to stabilize over night. The test manifold, pressure recorder, and deadweight tester were connected to the test section as shown in the attached sketch.

The test section was pressurized at a rate 10 psi/minute to 835 psi (approximately 80% of strength test pressure) by injecting water at MP 160.58 with a positive-displacement pump. Pressurization was halted for approximately an hour while waiting for daylight and to allow for stabilization. The test section was then pressurized at a rate of 5 Psi/min to test pressure of 1033 psi . The pressure stabilized at 8:15 AM of March 3, 2006 at 1034 psi and the 4 hour strength test commenced. Once the 4. hour strength test was deemed successful the test pressure was reduced by 100 psi. The leak test pressure settled at 936 psi.

Conclusion:

The strength test started at 8: 15 AM on March 3rd, 2006 and was held for 4 hours starting at a pressure of 1034 psi. Over the duration of the strength test, there was a pressure gain of 1.0 psi. At this point, the strength test was deemed successful.

The leak test started at 1:30 PM on March 3rd, 2006 and was held for 4 hours starting at a pressure of 936 psi. Over the duration of the leak test, there was a pressure gain of 1.0 psi. At this point the leak test was deemed successful.

The pressure trends over the duration of the tests were within the accuracy of the instrumentation or within calculated fluctuations caused by temperature changes. The tests were deemed successful.

Therefore, in my judgment, this constitutes a valid pressure test meeting the requirements of the Department of Transportation Code of Federal Regulations Title 49, Part 195 Subpart E.

Samuel C. Hong
Testing Engineer
BJ Process & Pipeline Services

CARRIER NAME Mobil Pipeline Company	
TESTING COMPANY NAME BJ Process & Pipeline Services	
PRESSURE TEST NUMBER	DATE 3/3/2006
THIS IS TO CERTIFY THAT THE PIPE LINE OR PIPELINE SECTION DEPRESSURE TESTED IN ACCORDANCE WITH THE FOLLOWING PRO	DESCRIBED BELOW WAS HYDROSTATICALLY DCEDURE:
PIPE LINE 20" Crude	FROM Patoka, IL TO Corsicana, TX
DESCRIPTION OF FACILITY TESTE Test Section 22 MP 160.62	
SECTION LENGTH 32.74 miles PIPE O.D. 20" WALL THIC	CKNESS <u>0.312"</u> GR. <u>X-42</u> TYPE <u>ERW</u>
LOCATION OF TEST PRESSURE RECORDER CONNECT MP 160.62	2 (See attached sketch)
LOCATION OF TEMPERATURE RECORDER BULB MP 160.62	2 (See attached sketch)
INITIAL PRESSURE AT POINT OF TEST 1034 psig	TIME 8.15 AM
INITIAL TEMPERATURE OF TEST SECT. 57.5 °F ELEV. AT F	POINT OF TEST 320 ft MSL
INITIAL PRESSURE AT LOWEST ELEVATION POINT IN SECTION	N <u>1060.8</u> PSIG;
ELEVATION 258 ft MSL; MP. 132.41 THE PRESSURE WAS	MEASURED X CALCULATED
INITIAL PRESSURE AT HIGHEST ELEVATION POINT IN SECTION	982.0 PSIG :
ELEVATION 440 ft MSL; MP. 141 42 THE PRESSURE WAS	MEASURED X CALCULATED
FINAL PRESSURE AT POINT OF TEST 1035 PSIG	TIME 12:15 PM
FINAL TEMPERATURE OF TEST SECT. 57.3 °F	
TOTAL FLUID INJ. N/A GAL. TOTAL FLUID WITH	DRAWN N/A GAL.
NET CHANGE IN VOLUME OF THE TEST SECT N/A GAL.	
LENGTH OF TEST 4 HRS. 0 MIN; TESTING FLUIL Water	_SPEC GVTY1.00TEMP N/A _ °F
INITIAL PRESSURE $\underline{79}$ % OF SMYS AT THE TEST SITE $\underline{75}$ % AT F	HIGH POINT 81 % AT LOW POINT.
MINIMUM TEST PRESSURE DURING A SELECTED 4 HOUR PER	RIOD (TEST PRESSURE) 1034 PSIG
MAXIMUM ALLOWABLE OPERATING PRESSURE 827 PSIG. OR 80% of minimum test pressure at test site.	at test site. BASED ON % SMYS
WERE THERE ANY LEAKS? YES X NO; IF YES, E	XPLAIN
WAS EVERY COMPONENT THAT WILL BE SUBJECTED TO THE SYS	TEM WORKING PRESSURE
HYDROSTATICALLY TESTED? X YES NO; IF NO, E	
PRESSURE RECORDER MAKE AND SERIAL N Chandler 23087	ITT Barton 242E-51492
TEMPERATURE RECORDER MAKE AND SERIAL NO ITT Barton	242E-51492 ITT Barton 242E-46150
REMARKS: Tested in accordance with D.O.T. CFR Title 49 Part 195 St	ubpart E
CONDUCTED BY Sam Hong	TITLE BJ PPS Test Engineer
CERTIFIED BY Chris Gorman Chie Morman	TITLE Risk & Integrity Specialist, EMPCo
WITNESSED BY Ricky Boulware	TITLE EMPCO Test Site Inspector
WITNESSED BY Free Formon	TITLE RELATION
NOTE: OFF DOT LIGHTS MANUAL	

CARRIER NAME Mobil Pipeline Company	
TESTING COMPANY NAME BJ Process & Pipeline Services	
PRESSURE TEST NUMBER Test Section 22 Leak Test	DATE 3/3/2006
THIS IS TO CERTIFY THAT THE PIPE LINE OR PIPELINE SECTION DEPRESSURE TESTED IN ACCORDANCE WITH THE FOLLOWING PRO	DESCRIBED BELOW WAS HYDROSTATICALLY DCEDURE:
PIPE LINE 20" Crude	FROM Patoka, IL TO Corsicana, TX
DESCRIPTION OF FACILITY TESTE Test Section 22 MP 16	
SECTION LENGTH 32.74 miles PIPE O.D. 26" WALL	THICKNESS 0.312" GR. X-42 TYPE ERW
LOCATION OF TEST PRESSURE RECORDER CONNECTION MP 16	
LOCATION OF TEMPERATURE RECORDER BULB MP. 16	
INITIAL PRESSURE AT POINT OF TEST 936 psig	
INITIAL TEMPERATURE OF TEST SECT. 56.1 °F ELEV.	
INITIAL PRESSURE AT LOWEST ELEVATION POINT IN SECTION	
ELEVATION N/A MSL; MP. N/A THE PRESSURE WA	
INITIAL PRESSURE AT HIGHEST ELEVATION POINT IN SECTION	N/A PSIG;
ELEVATION N/A MSL; MP. N/A THE PRESSURE WA	
ENAL PRESCRIPTION	TIME 5.30 PM
FINAL TEMPERATURE OF TEST SECT. 56.2 °F	
TOTAL FLUID INJ. N/A GAL. TOTAL FLUID W	/ITHDRAWNN/A GAL.
NET CHANGE IN VOLUME OF THE TEST SECT. N/A GA	
LENGTH OF TEST 4 HRS. 0 MIN; TESTING FLUID Water	
INITIAL PRESSURE N/A % OF SMYS AT THE TEST SITE N/A %	
MINIMUM TEST PRESSURE DURING A SELECTED 4 HOUR	
MAXIMUM ALLOWABLE OPERATING PRESSURE 827 PS	IG. at test site BASED ON % SMYS
OR 80% of minimum test pressure of 1034.0 psig at the te	st site during the 4 hour strength test
WERE THERE ANY LEAKS? YES X NO; IF YE	S, EXPLAIN
WAS EVEDY COMPONENT THAT MILL DE CUR IS OFFE TO THE	
WAS EVERY COMPONENT THAT WILL BE SUBJECTED TO THE SYS	
HYDROSTATICALLY TESTED? X YES NO; IF NO	O, EXPLAIN
PRESSURE RECORDER MAKE AND SERIAL NO Chandler 2308	7 ITT Barton 242E-51492
TEMPERATURE RECORDER MAKE AND SERIAL NO. ITT Barton	242E-51492 ITT Barton 242E-46150
REMARKS: Tested in accordance with D.C.T. CFR Title 49 Part 195 Su	
CONDUCTED BY Sam Hong	TITLE 8J PPS Test Engineer
CERTIFIED BY Chris Gorman Chris Johnson	TITLE Risk & Integrity Specialist, EMPCo
WITNESSED BY Ricky Boulware	TITLE EMPCO Test Site Inspector
WITNESSED BY Johnson NOTE: SEE DOT LIQUIDS MANUAL WITNESSED BY Johnson MANUAL WITNESSED BY Johnson MANUAL MANUAL	TITLE R +IC
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HYDROSTATIC PRESSURE TEST DATA SHEET

FROM DATE: 3/3/2006

то 3/3/2006

TEST NUMBER: Section 22

TIME: 8:15 AM 12:15 PM

DESCRIPTION: 647 Miles / 20" Crude Pipe Line, Patoka, IL to Corsicana, TX

MP 160.62 - MP 127.88

Strength Test

DEADWEIGHT TESTER NO. Chandler 23087 PRESSURE RECORDER NO. ITT Barton

242E-51492 TEMPERATURE RECORDER NO. ITT Barton 242E-46150

TIME PRESSURE TEMP TEMP (PF) (GAL) (GAL) 8:15 AM 1034.0 52.5 57.5 N/A N/A Start 4 Hour Strength Test 8:30 AM 1034.0 54.0 57.3 " " 9:00 AM 1034.0 55.5 57.3 " " 9:00 AM 1034.0 55.5 57.3 " " 9:15 AM 1034.0 55.6 57.3 " " 9:15 AM 1034.0 55.5 57.3 " " 9:15 AM 1034.0 57.0 57.3 " " 9:30 AM 1034.0 57.0 57.3 " " 9:45 AM 1034.5 57.5 57.3 " " 10:00 AM 1034.5 57.5 57.3 " " 10:00 AM 1034.5 58.2 57.3 " " 10:15 AM 1034.5 58.2 57.3 " " 10:30 AM 1034.5 58.5 57.3 " " 10:30 AM 1034.5 59.2 57.3 " " 10:30 AM 1035.0 60.0 57.3 " " 11:15 AM 1035.0 60.3 57.3 " " 11:30 AM 1035.0 61.0 57.3 " " 11:45 AM 1035.0 61.7 57.3 " " 12:00 PM 1035.0 63.2 57.3 " " End 4 Hour Strength Test		·					
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	12:15 PM	1035.0	63.2	57.3			End 4 Hour Strength Test

MOBIL PIPE LINE COMPANY

HYDROSTATIC PRESSURE TEST DATA SHEET

FROM то DATE: 3/3/2006 3/3/2006

TEST NUMBER: Section 22

TIME: 1:30 PM 5:30 PM

242E-46150

DESCRIPTION: 647 Miles / 20" Crude Pipe Line, Patoka, IL to Corsicana, TX

MP 160.62 - MP 127.88

Leak Test

DEADWEIGHT TESTER NO. Chandler 23087 PRESSURE RECORDER NO. ITT Barton 242E-51492 TEMPERATURE RECORDER NO. ITT Barton

	T	,				
		AMBIENT	PIPE	GALLONS	GALLONS	
TIME	PRESSURE	TEMP	TEMP	INJECTED	BLED OFF	COMMENTS
	(PSIG)	(°F)	(°F)	(GAL)	(GAL)	
1:30 PM	936.0	68.0	56.1	N/A	N/A	Start 4 Hour Leak Test
1:45 PM	936,0	68.9	56.1	•	*	
2:00 PM	936.0	69.1	56.1		ы	
2:15 PM	936.5	70.1	56.1	-		
2:30 PM	936.5	70.1	56.1	-		
2:45 PM	936.5	71.6	56.1	•	•	
3:00 PM	936.5	71.0	56.1	-	и	
3:15 PM	936.5	71.0	56,1			
3:30 PM	936.5	71.0	56.1			
3:45 PM	936.5	71.0	56.1		-	
4:00 PM	937.0	71.0	56.1		-	
4:15 PM	937.0	71.0	56.1		M	
4:30 PM	937.0	70.0	56 1	**		
4·45 PM	937.0	69.0	56.1	*	1	
5:00 PM	937.0	68.5	56.1		п	
5:15 PM	937.0	67.0	56.2		**	
5:30 PM	937.0	66.0	56.2	Ħ	*	End 4 Hour Leak Test

HYDROSTATIC PRESSURE TEST

647 Miles / 20" Crude Pipe Line, Patoka, IL to Corsicana, TX

Test Section 23

Winnsboro Station

MP 98.49 - MP 127.88

Memorandum

Date: 4/28/06 Subject: Hydrotest Review & Endorsement

To: <Hydrotest Report and HCA cc: <>

Baseline Assessment File>

From: <Chris Gorman>

I've completed the review of the hydrostatic test report for Test Section - 23 (H23) for the Corsicana to Patoka Crude Line. It is consistent with my knowledge of the testing operations and facility and confirms we had a good test. The hydrotest and report documentation are accurate and thorough and will satisfy our needs for Data Integration, Risk & Threat Analysis, and Preventive & Mitigative Measures Analysis needed to comply with the HCA regulations and the testing requirements of DOT CFR Title 49, Part 195, Subpart E.

Chris D. Gorman

Pipeline Risk & Integrity Specialist ExxonMobil Pipeline Company

Hus Garner

1604 South 15th St. Corsicana, TX 75110 903-654-5323

903-654-5323 903-654-5302 fax 903-654-1324 cell

647 Miles /20" Crude Line; Patoka, IL to Corsicana, TX
Test Section 23 MP 98.49 - MP 127.88

Date and Time:

March 5, 2006, from 9:00 AM to 1:00 PM. (Strength Test) March 5, 2006, from 2:15 PM to 6:15 PM. (Leak Test)

Facility Tested:

The test section consisted of 9.39 miles of 20" x 0.312" w.t., X-42 ERW pipe

Personnel Present:

Conducted by: S.C. Hong - Test Engineer - BJ Process & Pipeline Services

Witnessed by: Ricky Boulware - EMPCO - Tech Site Inspector

Procedure:

On March 4, 2006, the piping was filled with water and the air was allowed to bleed through 2" valves. The test section was filled with water by moving water from previously hydrotested sections. The test section was pressurized to approximately 700 psig with BJ's positive-displacement pump at a rate of 15 psi/minute, and was allowed to stabilize over night the test manifold, pressure recorder, and deadweight tester were connected to the test section as shown in the attached sketch.

The test section was pressurized at a rate of 10 psi/minute to 825 psi (approximately 80% of strength test pressure) by injecting water at MP 98.51 with a positive-displacement pump. Pressurization was halted for approximately an hour while waiting for daylight and to allow for stabilization. The test section was then pressurized at a rate of 5 psi/min to test pressure of 1030 psi. The pressure stabilized at 9:00 AM on March 5, 2006 at. 1030 psi and the 4 hour strength test began. Upon completion of the 4 hour strength test, the pressures was then reduced approximately 100 psi. The leak test pressure settled at 931 psi and at 2:15 PM the 4 hour leak test commenced.

Conclusion:

The strength test started at 9:00 AM on March 5th, 2006 and was held for 4 hours starting at a pressure of 1030 psi. Over the duration of the strength test, there was a pressure gained of 1.0 psi.

The leak test started at 2:15 PM on March 5th, 2006 and was held for 4 hours starting at a pressure of 931 psi. Over the duration of the leak test, there was a pressure gained of 1.0 psi. At this point the leak test was deemed successful.

The pressure trends over the duration of the leak test are within the accuracy of the instrumentation or within calculated fluctuations caused by temperature changes. The tests were deemed successful

Therefore, in my judgment, this constitutes a valid pressure test meeting the requirements of the Department of Transportation Code of Federal Regulations Title 49, Part 195 Subpart E.

Samuel C. Hong
Testing Engineer
BJ Process & Pipeline Services

CARRIER NAME Mobil Pipeline Company	***************************************
TESTING COMPANY NAME BJ Process & Pipeline Services	
PRESSURE TEST NUMBER Test Section 23 Strength Test DATE 3/5/200	03
THIS IS TO CERTIFY THAT THE PIPE LINE OR PIPELINE SECTION DESCRIBED BELOW WAS HYDROSTATICAL PRESSURE TESTED IN ACCORDANCE WITH THE FOLLOWING PROCEDURE:	LLY.
PIPE LINE 20" Crude FROM Patoka, IL TO Corsicana	a, TX
DESCRIPTION OF FACILITY TESTE Test Section 23 MP 98.49 - MP 127.88	
SECTION LENGTH 29.39 miles PIPE O.D. 20" WALL THICKNESS 0.312" GR. X-42 TYPE EI	RW
LOCATION OF TEST PRESSURE RECORDER CONNECT MP 98.49 (See attached sketch)	
LOCATION OF TEMPERATURE RECORDER BULB MP 98.49 (See attached sketch)	
INITIAL PRESSURE AT POINT OF TEST 1030 psig TIME 9:00 AM	
INITIAL TEMPERATURE OF TEST SECT. 60.0 °F ELEV. AT POINT OF TEST 473 ft MSL	
INITIAL PRESSURE AT LOWEST ELEVATION POINT IN SECTION 1123.1 PSIG;	
ELEVATION 258 ft MSL; MP. 126.41 THE PRESSURE WAS MEASURED X CALCULA	TED
INITIAL PRESSURE AT HIGHEST ELEVATION POINT IN SECTION 979.3 PSIG;	
ELEVATION 590 ft MSL; MP. 100.49 THE PRESSURE WAS MEASURED X CALCULA	TED
FINAL PRESSURE AT POINT OF TEST 1031 PSIG TIME 1:00 PM	
FINAL TEMPERATURE OF TEST SECT. 58.0 °F	
TOTAL FLUID INJ. N/A GAL. TOTAL FLUID WITHDRAWN N/A GAL.	
NET CHANGE IN VOLUME OF THE TEST SECT N/A GAL.	
LENGTH OF TEST 4 HRS. 0 MIN; TESTING FLUIC Water SPEC GVTY. 1.00 TEMP. N/A	<u>\</u> °F
INITIAL PRESSURE 79 % OF SMYS AT THE TEST SITE 75 % AT HIGH POINT 86 % AT LOW POINT.	
MINIMUM TEST PRESSURE DURING A SELECTED 4 HOUR PERIOD (TEST PRESSURE) 1030 PSIG	3
MAXIMUM ALLOWABLE OPERATING PRESSURE 824 PSIG. at test site. BASED ON % SMYS OR 80% of minimum test pressure at test site.	
WERE THERE ANY LEAKS? YES X NO; IF YES, EXPLAIN	
WAS EVEDY COMPONENT THAT WILL BE OUR (FOTER TO THE OVERTIMAL) OF THE OVERTIMAL REPORTS	
WAS EVERY COMPONENT THAT WILL BE SUBJECTED TO THE SYSTEM WORKING PRESSURE	
HYDROSTATICALLY TESTED? X YES NO; IF NO, EXPLAIN	
PRESSURE RECORDER MAKE AND SERIAL N_Chandler 23087 ITT Barton 242E-51492	
TEMPERATURE RECORDER MAKE AND SERIAL NCITT Barton 242E-51492 ITT Barton 242E-51492	
REMARKS: Tested in accordance with D.O.T. CFR Title 49 Part 195 Subpart E.	
CONDUCTED BY Sam Hong TITLE BJ PPS Test Engineer	
A Franklin	************
WITNESSED BY Ricky Boulware TITLE EMPCO Test Site Inspector WITNESSED BY Arice Journal TITLE R&IS	
NOTE: SEE DOT LIQUIDS MANIAL 1/10 for a m force of	

CARRIER NAME Mobil Pipeline Company	
TESTING COMPANY NAME BJ Process & Pipeline Services	
PRESSURE TEST NUMBER Test Section 23 Leak Test	DATE 3/5/2006
THIS IS TO CERTIFY THAT THE PIPE LINE OR PIPELINE SECTION DESI PRESSURE TESTED IN ACCORDANCE WITH THE FOLLOWING PROCE	
PIPE LINE 20° Crude	FROM Patoka, IL TO Corsicana, TX
DESCRIPTION OF FACILITY TESTE Test Section 23 MP 98.49	
SECTION LENGTH 29.39 miles PIPE O.D. 20" WALL THIC	CKNESS 0.312" GR. X-42 TYPE ERW
LOCATION OF TEST PRESSURE RECORDER CONNECTION MP 98.49	(See attached sketch)
LOCATION OF TEMPERATURE RECORDER BULB MP 98.49	(See attached sketch)
INITIAL PRESSURE AT POINT OF TEST 931 psig	TIME 2:15 PM
INITIAL TEMPERATURE OF TEST SECT. 58.0 °F ELEV. AT	
INITIAL PRESSURE AT LOWEST ELEVATION POINT IN SECTION	N/A PSIG;
ELEVATION N/A MSL; MP. N/A THE PRESSURE WAS	MEASURED CALCULATED
INITIAL PRESSURE AT HIGHEST ELEVATION POINT IN SECTION	N/A PSIG;
ELEVATION N/A MSL; MP. N/A THE PRESSURE WAS	MEASURED CALCULATED
FINAL PRESSURE AT POINT OF TEST 932 PSIG	TIME 6:15 PM
FINAL TEMPERATURE OF TEST SECT. 58.2 °F	
TOTAL FLUID INJ. N/A GAL. TOTAL FLUID WITH	IDRAWN N/A GAL.
NET CHANGE IN VOLUME OF THE TEST SECT. N/A GAL.	
LENGTH OF TEST 4 HRS. 0 MIN; TESTING FLUID Water	SPEC GVTY. 1.00 TEMP. N/A °F
INITIAL PRESSURE N/A % OF SMYS AT THE TEST SITE N/A % AT	HIGH POINT N/A % AT LOW POINT.
MINIMUM TEST PRESSURE DURING A SELECTED 4 HOUR PER	RIOD (TEST PRESSURE) 931 PSIG
MAXIMUM ALLOWABLE OPERATING PRESSURE 824 PSIG.	at test site BASED ON % SMYS
OR 80% of minimum test pressure of 1030.0 psig at the test s	
WERE THERE ANY LEAKS? YES X NO; IF YES, I	EXPLAIN
WAS EVERY COMPONENT THAT WILL BE SUBJECTED TO THE SYSTEM	M WORKING PRESSURE
N/DD00747404114	EXPLAIN
PRESSURE RECORDER MAKE AND SERIAL NO Chandler 23087	ITT Barton 242E-51492
TEMPERATURE RECORDER MAKE AND SERIAL NO. ITT Barton	242E-51492 ITT Barton 242E-51492
REMARKS: Tested in accordance with D.O.T. CFR Title 49 Part 195 Subpart	art E
COMPRIOTED BY	
CERTIFIED BY Chris Gorman Krw January	TITLE BJ PPS Test Engineer
Chill Colling Colling	TITLE Risk & Integrity Specialist, EMPCo
WITNESSED BY Ricky Boulware WITNESSED BY The Town Survey States	TITLE R + I S TITLE R + I S
NOTE: SEE DOT LIQUIDS MANUAL VIO + A CONTROL OF	IIILE // · · ·

HYDROSTATIC PRESSURE TEST DATA SHEET

FROM TO DATE: 3/5/2006 3/5/2006

1:00 PM

TEST NUMBER: Section 23

TIME: 9:00 AM

DESCRIPTION: 647 Miles / 20" Crude Pipe Line, Patoka, IL to Corsicana, TX

MP 98.49 - MP 127.88

Strength Test

 DEADWEIGHT TESTER NO.
 Chandler
 25602

 PRESSURE RECORDER NO.
 ITT Barton
 242E-51492

TEMPERATURE RECORDER NO. ITT Barton 242E-55357

		AMBIENT	PIPE	GALLONS	GALLONS	
TIME	PRESSURE	TEMP	TEMP	INJECTED	BLED OFF	COMMENTS
	(PSIG)	(°F)	(°F)	(GAL)	(GAL)	
9:00 AM	1030.0	59.0	60,0	N/A	N/A	Start 4 Hour Strength Test
9:15 AM	1030.0	59.5	60.0	11	"	
9:30 AM	1030.0	60.0	60.0	н	"	Slight decrease in pipe wall
9:45 AM	1030.0	62.0	59.9	n	ia.	temperature due to warmer water
10:00 AM	1030.0	64.0	59.7	"	ur.	from frac tanks injected into pipeline
10:15 AM	1030.0	66.0	58.5	17	13	during segment pressurization
10:30 AM	1030.0	67.5	59.3	п	19	
10:45 AM	1030.5	69.2	59.2	11	"	
11:00 AM	1030.5	72.0	59.0		,,	
11:15 AM	1030.5	73.0	58.8		,,	
11:30 AM	1030.5	73.5	58.5	"	"	
11:45 AM	1030.5	74.5	58.1	"	"	
12:00 PM	1030.5	74.5	58.0	"	*	
12:15 PM	1030.5	73.5	58.0	"	"	
12:30 PM	1031.0	73.5	58.0	4		
12:45 PM	1031.0	73.5	58.0	4		
1:00 PM	1031.0	74.5	58.0	4	"	End 4 Hour Strength Test
			···			

MOST COST WE COMPANY									
MOBIL PIPE LINE COMPANY									
					FROM	TO			
HYDROSTATIC	PRESSURE TEST	DATA SHE	ET		DATE:	3/5/2006	3/5/2006		
TEST NUMBER: Section 23					TIME:	2:15 PM	6:15 PM		
DESCRIPTION: 647 Miles / 20" Crude Pipe Line, Patoka, IL to Corsicana, TX									
MP 98.49 - MP 127.88									
		Leak Test							
	DEADWEIGHT TE	STER NO.	Chandler		25602				
	PRESSURE RECO	RDER NO.	ITT Barton		242E-51492				
TEM	PERATURE RECO	RDER NO.	ITT Barton	***************************************	242E-55357	'			
		AMBIENT	PIPE	GALLONS	GALLONS				
TIME	PRESSURE	TEMP	TEMP	INJECTED	BLED OFF	COMME	NTS		
	(PSIG)	(°F)	(°F)	(GAL)	(GAL)				
2:15 PM	931.0	76.0	58.0	N/A	N/A	Start 4 Hour Leak Test			
2:30 PM	931.0	76.2	58.0	16	*				
2:45 PM	931.5	76.5	58.0		*				
3:00 PM	931.5	77.0	58.0	**	,				
3:15 PM	931.5	76.5	58.0	11	-				
3:30 PM	931.5	76.0	58.0	'n			***************************************		
3:45 PM	931.5	76.0	58.0	n	10		· · · · · · · · · · · · · · · · · · ·		
4:00 PM	931.5	75.5	58.0	н	1+				
4:15 PM	931.5	75.0	58.0	"					
4:30 PM	932.0	74.9	58.0		,,				
4:45 PM	932.0	74.5	58.0						
5:00 PM	932.0	73.5	58.2		41				
5:15 PM	932.0	72.5	58.2	**					
5:30 PM	932.0	72.0	58.2		#				
5:45 PM	932.0	72.0	58.2 58.2						
6:00 PM	932.0	71.8	58.2	"	le .				
6:15 PM	932.0	70.0	58.2	я		Cad A Linux Lank *			
U. IU FWI	304.U	70.0	30.2			End 4 Hour Leak Test			
			1						

HYDROSTATIC PRESSURE TEST

647 Miles / 20" Crude Pipe Line, Patoka, IL to Corsicana, TX

Test Section 24

Winnsboro Station

MP 98.49 - MP 82.72

Memorandum

Date: 4/28/06 Subject: Hydrotest Review & Endorsement

To: <Hydrotest Report and HCA cc: <>

Baseline Assessment File>

From: <Chris Gorman>

I've completed the review of the hydrostatic test report for Test Section - 24 (H24) for the Corsicana to Patoka Crude Line. It is consistent with my knowledge of the testing operations and facility and confirms we had a good test. The hydrotest and report documentation are accurate and thorough and will satisfy our needs for Data Integration, Risk & Threat Analysis, and Preventive & Mitigative Measures Analysis needed to comply with the HCA regulations and the testing requirements of DOT CFR Title 49, Part 195, Subpart E.

Chris D. Gorman

Pipeline Risk & Integrity Specialist Exxon Mobil Pipeline Company

Ary Jomson

1604 South 15th St. Corsicana, TX 75110

903-654-5323 903-654-5302 fax 903-654-1324 cell

647 Miles / 20" Crude Line, Patoka, IL to Corsicana, TX
Test Section 24 MP 98.49 - MP 82.72

Date and Time:

March 5, 2006, from 8:15 AM to 12:15 PM. (Strength Test) March 5, 2006, from 1:30 PM to 5:30 PM. (Leak Test)

Facility Tested:

The test section consisted of 15.77 miles of 20" x 0.312" w.t., X-42 ERW pipe

Personnel Present:

Conducted by: S.C. Hong - Test Engineer - HJ Process & Pipeline Services Witnessed by: Ricky Boulware - EMPCO Test Site Inspector

Procedure:

On March 4, 2006, the piping was filled with water and the air was allowed to bleed through 2" valves. The test section was filled with water by moving water from previously hydrotested sections. The test section was pressurized to approximately 700 psig with BJ's positive-displacement pump at a rate of 15 psi/minute, and was allowed to stabilize over night. The test manifold, pressure recorder, and deadweight tester were connected to the test section as shown in the attached sketch.

The test section was pressurized at a rate of 10 psi/minute to 850 psi (approximately 80% of strength test pressure) by injecting water at MP 98.49 with a positive-displacement pump. Pressurization was halted for approximately an hour while waiting for daylight and to allow for stabilization. The test section was then pressurized at a rate of 5 psi/min to test pressure of 1067 Psi. The pressure stabilized at 9:00 AM on March 5, 2006 at 1068 psi and the 4 hour strength test commenced. Once 4 hour strength test was deemed successful, the pressure was reduced by 100 psi. The pressure stabilized at 968.5 psi at 1:30 PM and the 4 hour leak test began.

Conclusion:

The strength test started at 8: 15 AM on March 5th, 2006 and was held for 4 hours starting at a pressure of 1068 psi. Over the duration of the strength test, there was no pressure change. The leak test started at 1:30 PM on March 5th, 2006 and was held for 4 hours starting at a pressure of 968.5 psi. Over the duration of the leak test, there was a pressure gain of 0.5 psi. At this point the leak test was deemed successful.

The pressure trends over the duration of the leak test are within the accuracy of the instrumentation or within calculated fluctuations caused by temperature changes. The tests were deemed successful.

Therefore, in my judgment, this constitutes a valid pressure test meeting the requirements of the Department of Transportation Code of Federal Regulations Title 49, Part 195 Subpart E.

Samuel C. Hong Testing Engineer BJ Process & Pipeline Services

CARRIER NAME Mobil Pipeline Company	
TESTING COMPANY NAME BJ Process & Pipeline Services	
PRESSURE TEST NUMBER Test Section 24 Leak Test	DATE 3/5/2006
THIS IS TO CERTIFY THAT THE PIPE LINE OR PIPELINE SECTION DESC PRESSURE TESTED IN ACCORDANCE WITH THE FOLLOWING PROCEI	
PIPE LINE 20" Crude	FROM Patoka, IL TO Corsicana, TX
DESCRIPTION OF FACILITY TESTE Test Section 24 MP 98.49	
SECTION LENGTH 15.77 miles PIPE O.D. 20" WALL THIC	CKNESS 0.312" GR. X-42 TYPE ERW
LOCATION OF TEST PRESSURE RECORDER CONNECTION MP 98.49	
LOCATION OF TEMPERATURE RECORDER BULB MP 98.49	(See attached sketch)
INITIAL PRESSURE AT POINT OF TEST 968.5 psig	
INITIAL TEMPERATURE OF TEST SECT. 59.5 °F ELEV. AT F	POINT OF TEST N/A MSL
INITIAL PRESSURE AT LOWEST ELEVATION POINT IN SECTION	N/A PSIG;
ELEVATION N/A MSL; MP. N/A THE PRESSURE WAS	MEASURED CALCULATED
INITIAL PRESSURE AT HIGHEST ELEVATION POINT IN SECTION	N/A PSIG;
ELEVATION N/A MSL: MP. N/A THE PRESSURE WAS	MEASURED CALCULATED
FINAL PRESSURE AT POINT OF TEST 969 PSIG	TIME <u>5:30 PM</u>
FINAL TEMPERATURE OF TEST SECT. 59.0 °F	
TOTAL FLUID INJ. N/A GAL. TOTAL FLUID WITH	DRAWNN/AGAL.
NET CHANGE IN VOLUME OF THE TEST SECT. N/A GAL.	
LENGTH OF TEST 4 HRS. 0 MIN; TESTING FLUID Water	SPEC GVTY. 1.00 TEMP. N/A °F
INITIAL PRESSURE N/A % OF SMYS AT THE TEST SITE N/A % AT H	HIGH POINT N/A % AT LOW POINT.
MINIMUM TEST PRESSURE DURING A SELECTED 4 HOUR PER	
MAXIMUM ALLOWABLE OPERATING PRESSURE 854 PSIG. OR 80% of minimum test pressure of 1068.0 psig at the test si	at test site BASED ON % SMYS
WERE THERE ANY LEAKS? YES X NO; IF YES, E	
TES A NO, IF TES, E	APLAIN
WAS EVERY COMPONENT THAT WILL BE SUBJECTED TO THE SYSTEM	WORKING PRESSURE
	EXPLAIN
PRESSURE RECORDER MAKE AND SERIAL NO Chandler 25602	ITT Barton 242E-47061
TEMPERATURE RECORDER MAKE AND SERIAL NO. ITT Barton	242E-47061 ITT Barton 242E-46150
REMARKS: Tested in accordance with D.O.T. CFR Title 49 Part 195 Subpa	nt E.
CONDUCTED BY Sam Hong	TITLE RIPPS Test Engineer
CERTIFIED BY Chris Gorman Chris Forman	TITLE BJ PPS Test Engineer TITLE Risk & Integrity Specialist, EMPCo
WITNESSED BY Ricky Boulware	TITLE EMPCO Test Site Inspector
WITNESSED BY Sorman	TITLE R + I.5
NOTE: SEE DOT LIQUIDS MANUAL	

		M	OBIL PIP	E LINE CO	MPANY		
						FROM	то
YDROSTATIC	PRESSURE TEST	DATA SHE	ET		DATE:	3/5/2006	3/5/2006
	TEST NUMBER:	NUMBER: Section 24 TIME:					12:15 PM

	DESCRIPTION:	647 Miles	20" Crude	Pipe Line, Pa	toka, IL to Co	orsicana, TX	
		MP 98.49 -	MP 82.72				
		Strength 1	est				
	DEADWEIGHT TE	STER NO.	Chandler		25602		
	PRESSURE RECO	RDER NO.	ITT Barton		242E-47061		
TEM	IPERATURE RECO	RDER NO.	ITT Barton		242E-46150)	······································
	,	T		·	·	y	
		AMBIENT	PIPE		GALLONS		
TIME	PRESSURE	TEMP	TEMP	INJECTED			
	(PSIG)	(°F)	(°F)	(GAL)	(GAL)		
8:15 AM	1068.0	57.0	60.2	N/A	N/A	Start 4 Hour Strength	Test
8:30 AM	1068.0	57.2	60.2		*		
8:45 AM	1068.0	58.0	60.2		*	Slight decrease in pip	e wall
9:00 AM	1068.0	58.5	60.2	n	"	temperature due to wa	armer water
9:15 AM	1068.0	59.0	60.2	······································		from frac tanks injecte	d into pipeline
9:30 AM	1068.0	60.0	60.2	n		during segment press	unzation
9:45 AM	1068.0	62.0	60.1		*		
10:00 AM	1068.0	63.5	60.0			***************************************	
10:15 AM	1068.0	65.2	60.0				
10:30 AM	1068.0	66.2	60.0	"			
10:45 AM 11:00 AM	1068.0	68.0	60.0	12	,		······································
11:15 AM	1068.0 1068.0	70.5	60.0	10			
11:30 AM	1068.0	71.0	60.0				
11:45 AM	1068.0	72.0	60.0				
12:00 PM	1068.0	73.0 73.0	59.9 59.9		*		
12:15 PM	1068.0	72.5	59.9			End 4 Hour Strength T	••
			28.8			eno 4 Hour Strenoto 1	est

MOBIL PIPE LINE COMPANY											
		***	-WILL I'II		THE PART !	FROM	то				
HYDROSTATIO	PRESSURE TEST	DATA SHE	ET		DATE:		3/5/2006				
		271771 0172	· • • ·		UATE.	0/012000	3/3/2000				
	TEST NUMBER:	Section 24	1		TIME:	1:30 PM	5:30 PM				
	DESCRIPTION:	647 Miles	/ 20" Crude	Pipe Line, Pa	itoka, IL to C	orsicana, TX					
	MP 98.49 - MP 82.72										
Leak Test											
		-			V-1						
DEADWEIGHT TESTER NO. Chandler 25602											
	PRESSURE RECO	RDER NO.	ITT Barton		242E-47061						
TEM	IPERATURE RECO	RDER NO.	ITT Barton		242E-46150)					
		AMBIENT	PIPE	GALLONS	GALLONS						
TIME	PRESSURE	TEMP	TEMP	INJECTED	BLED OFF	COMME	NTS				
	(PSIG)	(°F)	(°F)	(GAL)	(GAL)						
1:30 PM	968.5	74.0	59.5	N/A	N/A	Start 4 Hour Leak Test					
1:45 PM	968.5	74.5	59.5	tr	"						
2:00 PM	968.5	74.8	59.4	и	**						
2:15 PM	968.5	75.0	59.3								
2:30 PM	968.5	75.0	59.3	"	н						
2:45 PM	969.0	75.2	59.3		n						
3:00 PM	969.0	76.0	59.2	*	n						
3:15 PM	969.0	75.8	59.0	7	10						
3:30 PM	969.0	75.5	59.0	n							
3:45 PM	969.0	75.2	59.0	4	n		· · · · · · · · · · · · · · · · · · ·				
4:00 PM	969.0	75.0	59.0	ж	"						
4:15 PM	969.0	74.9	59.0	*			······································				
4:30 PM	969.0	73.5	59.0	и	*						
4:45 PM	969.0	73.5	59.0		**		······································				
5:00 PM	969.0	73.5	59.0	и							
5:15 PM	969.0	72.5	59.0	н	+	· · · · · · · · · · · · · · · · · · ·	······································				
5:30 PM	969.0	72.1	59.0	11	*	End 4 Hour Leak Test					
				······································							

HYDROSTATIC PRESSURE TEST

647 Miles / 20" Crude Pipe Line, Patoka, IL to Corsicana, TX

Test Section 25

Canton, TX

MP 66.64 - MP 82.72

Memorandum

Date: 4/28/06 Subject: Hydrotest Review & Endorsement

To: <Hydrotest Report and HCA cc: <>

Baseline Assessment File>

From: <Chris Gorman>

I've completed the review of the hydrostatic test report for Test Section - 25 (H25) for the Corsicana to Patoka Crude Line. It is consistent with my knowledge of the testing operations and facility and confirms we had a good test. The hydrotest and report documentation are accurate and thorough and will satisfy our needs for Data Integration, Risk & Threat Analysis, and Preventive & Mitigative Measures Analysis needed to comply with the HCA regulations and the testing requirements of DOT CFR Title 49, Part 195, Subpart E.

Chris D. Gorman

Pipeline Risk & Integrity Specialist Exxon Mobil Pipeline Company

Tree Horman

1604 South 15th St. Corsicana, TX 75110 903-654-5323 903-654-5302 fax

903-654-1324 cell

·647 Miles /20" Crude Line, Patoka, IL to Corsicana, TX

Test Section 25 MP 66.64 - MP 82.72

Date and Time:

March 13, 2006, from 10:15 AM to 2:15 PM -. (Strength Test) March 13, 2006, from 3:30 PM to 7:30 PM. - (Leak Test)

Facility Tested:

The test section consisted of 16.45 miles of 20" x 0.312" w.t., X-42 ERW pipe

Personnel Present:

Conducted by: Curtis Carter - Test Engineer..: BJ Process & Pipeline Services Witnessed by: Ricky Boulware - EMPCO - Test Site Inspector

Procedure:

On March 12, 2006, the piping was filled with water and the air was allowed to bleed through 2" valves. The test section was filled with water by moving water from previously hydrotested sections. The test section was 'pressurized to approximately 700 psig with BJ's positive-displacement pump at a rate of 15 psi/minute and was allowed to stabilize over night. The test manifold, pressure recorder, and deadweight tester were connected to the test section as shown in the attached sketch.

On March 13, 2006 the test section was pressurized at a rate of 10 psi/minute to 788 psi (approximately 80% of strength test pressure) by injecting water at MP 66.64 with a positive-displacement pump. Pressurization was halted for approximately an hour while waiting for daylight and to allow for stabilization. The test section was then pressurized at a rate of 5 psi/min to test pressure of 986 psi. The pressure stabilized at 10:15 AM on March 13, 2006 at 986.5 psi and the 4 hour strength test commenced. Once the 4 hour strength test was deemed successful, the pressure was then reduced by 100 psi. The pressure stabilized at 885 psi at 3:30 PM and the 4 hour leak test began.

Conclusion:

The strength test started at 10:15 AM on March 13, 2006 and was held for 4 hours starting at a pressure of 985.5 psi. Over the duration of the strength test, there was no pressure change. The leak test started at 3:30 PM on March 13, 2006 and was held for 4 hours starting at a pressure of 885 psi. Over the duration of the leak test; there was no pressure change. At this point the leak test was deemed successful.

The pressure trends over the duration of the leak test are within the accuracy of the instrumentation or within calculated fluctuations caused by temperature changes. The tests were deemed successful.

Therefore, in my judgment, this constitutes a valid pressure test meeting the requirements of the Department of Transportation Code of Federal Regulations Title 49, Part 195 Subpart E.

Curtis 1. Carter
Testing Engineer
BJ Process & Pipeline Services

CARRIER NAME Mobil Pipeline Company	
TESTING COMPANY NAME BJ Process & Pipeline Services	
PRESSURE TEST NUMBER Test Section 25 Strength Test	DATE 3/13/2006
THIS IS TO CERTIFY THAT THE PIPE LINE OR PIPELINE SECTION PRESSURE TESTED IN ACCORDANCE WITH THE FOLLOWING P	N DESCRIBED BELOW WAS HYDROSTATICALLY ROCEDURE:
PIPE LINE 20° Crude	FROM Patoka, IL TO Corsicana, TX
DESCRIPTION OF FACILITY TESTE Test Section 25 MP 66.6	64 - MP 82.72
SECTION LENGTH 16.45 miles PIPE O.D. 20" WALL THE	HICKNESS 0.312" GR. X-42 TYPE ERW
LOCATION OF TEST PRESSURE RECORDER CONNECT MP 66.6	64 (See attached sketch)
LOCATION OF TEMPERATURE RECORDER BULB MP 66.6	64 (See attached sketch)
INITIAL PRESSURE AT POINT OF TEST 985.5 psig	TIME 10:15 AM
INITIAL TEMPERATURE OF TEST SECT. 61.0 °F ELEV. A	T POINT OF TEST 360 ft MSL
INITIAL PRESSURE AT LOWEST ELEVATION POINT IN SECTI	ON 995.0 PSIG;
ELEVATION 338 ft MSL; MP. 74.67 THE PRESSURE W	AS MEASURED X CALCULATED
INITIAL PRESSURE AT HIGHEST ELEVATION POINT IN SECTION	925.7 PSIG ;
ELEVATION 498 ft MSL; MP. 70.30 THE PRESSURE W	AS MEASURED X CALCULATED
FINAL PRESSURE AT POINT OF TEST 985.5 PSIG	TIME 2:15 PM
FINAL TEMPERATURE OF TEST SECT. 61.0 °F	
TOTAL FLUID INJ. N/A GAL. TOTAL FLUID WIT	THDRAWN N/A GAL.
NET CHANGE IN VOLUME OF THE TEST SEC1 N/A GAL	
LENGTH OF TEST 4 HRS. 0 MIN; TESTING FLUIL Water	SPEC GVTY1.00TEMPN/A _°F
INITIAL PRESSURE 75 % OF SMYS AT THE TEST SITE 71 % A	THIGH POINT 76 % AT LOW POINT.
MINIMUM TEST PRESSURE DURING A SELECTED4 HOUR P	
MAXIMUM ALLOWABLE OPERATING PRESSURE 788 PSIG	
WERE THERE ANY LEAKS? YES X NO; IF YES	EXPLAIN
WAS EVERY COMPONENT THAT WILL BE SUBJECTED TO THE S	VSTEM WORKING DRESSLIDE
3/0000000000000000000000000000000000000	, EXPLAIN
NO. II NO.	- CAT LANK
PRESSURE RECORDER MAKE AND SERIAL N_Chandler 25602	ITT Barton 242E-47061
TEMPERATURE RECORDER MAKE AND SERIAL NC ITT Barton	242E-47061 ITT Barton 242E-55357
REMARKS: Tested in accordance with D.O.T. CFR Title 49 Part 195	Subpart E.
0.01121.12222	
CONDUCTED BY Curtis Carter CERTIFIED BY Chris Gorman Chris Forman	TITLE BJ PPS Test Engineer
	TITLE Risk & Integrity Specialist, EMPCo
WITNESSED BY Ricky Boulware WITNESSED BY Ricky Boulware	TITLE EMPCO Test Site Inspector
NOTE: SEE DOT LIQUIDS MANUAL WAS TO CONTRACT OF THE PROPERTY O	TITLE K + 1 3
the state of the s	

CARRIER NAME Mobil Pipeline Company	
TESTING COMPANY NAME BJ Process & Pipeline Services	
PRESSURE TEST NUMBER Test Section 25 Leak Test	DATE 3/13/2006
THIS IS TO CERTIFY THAT THE PIPE LINE OR PIPELINE SECTION DESC PRESSURE TESTED IN ACCORDANCE WITH THE FOLLOWING PROCEI	CRIBED BELOW WAS HYDROSTATICALLY DURE:
PIPE LINE 20" Crude	FROM Patoka, IL TO Corsicana, TX
DESCRIPTION OF FACILITY TESTE Test Section 25 MP 66.64	
SECTION LENGTH 16.45 miles PIPE O.D. 20" WALL THIC	KNESS 0.312" GR. X-42 TYPE ERW
LOCATION OF TEST PRESSURE RECORDER CONNECTION MP 66.64	(See attached sketch)
LOCATION OF TEMPERATURE RECORDER BULB MP 66.64	(See attached sketch)
INITIAL PRESSURE AT POINT OF TEST 885.0 psig	TIME 3:30 PM
INITIAL TEMPERATURE OF TEST SECT. 61.0 °F ELEV. AT F	POINT OF TEST N/A MSL
INITIAL PRESSURE AT LOWEST ELEVATION POINT IN SECTION	N/A PSIG;
ELEVATION N/A MSL; MP. N/A THE PRESSURE WAS	MEASURED CALCULATED
INITIAL PRESSURE AT HIGHEST ELEVATION POINT IN SECTION	N/A PSIG;
ELEVATION N/A MSL; MP. N/A THE PRESSURE WAS	MEASURED CALCULATED
FINAL PRESSURE AT POINT OF TEST 885.0 PSIG	TIME 7:30 PM
FINAL TEMPERATURE OF TEST SECT. 61.0 °F	
TOTAL FLUID INJ. N/A GAL. TOTAL FLUID WITH	DRAWN N/A GAL.
NET CHANGE IN VOLUME OF THE TEST SECT. N/A GAL.	
LENGTH OF TEST 4 HRS. 0 MIN; TESTING FLUID Water	SPEC GVTY. 1.00 TEMP. N/A °F
INITIAL PRESSURE N/A % OF SMYS AT THE TEST SITE N/A % AT H	HIGH POINT N/A % AT LOW POINT.
MINIMUM TEST PRESSURE DURING A SELECTED 4 HOUR PER	IOD (TEST PRESSURE) <u>885</u> PSIG
MAXIMUM ALLOWABLE OPERATING PRESSURE 788 PSIG. OR 80% of minimum test pressure of 985.5 psig at the test sit	at test site BASED ON - % SMYS
WERE THERE ANY LEAKS? YES X NO: IF YES, E	
WAS EVERY COMPONENT THAT WILL BE SUBJECTED TO THE SYSTEM	
HYDROSTATICALLY TESTED? X YES NO; IF NO, E	XPLAIN
PRESSURE RECORDER MAKE AND SERIAL NO Chandler 25602	ITT Barton 242E-47061
TEMPERATURE RECORDER MAKE AND SERIAL NO. ITT Barton	242E-47061 ITT Barton 242E-55357
REMARKS: Tested in accordance with D.O.T. CFR Title 49 Part 195 Subpa	
CONDUCTED BY Curtis Carter	TITLE BJ PPS Test Engineer
CERTIFIED BY Chris Gorman Chris Tyrman	TITLE Risk & Integrity Specialist, EMPCo
WITNESSED BY Ricky Boulware	TITLE EMPCO Test Site Inspector
WITNESSED BY Low Johnson NOTE: SEE DOT LIQUIDS MANUAL UP FUECON FORMER	TITLE R+I3

		M	OBIL PIP	E LINE CO	MPANY		
						FROM	то
HYDROSTATIC	PRESSURE TEST	DATA SHE	ET		DATE:	3/13/2006	3/13/2006
	TEST NUMBER:	Section 25			TIME:	10:15 AM	2:15 PM
	DESCRIPTION:	647 Miles /	20" Crude	Pipe Line, Pa	toka, IL to Co	orsicana, TX	
		MP 66.64 -					
		Strength T	est				
					74.11.13		
DEADWEIGHT TESTER NO. Chandler 25602							
	PRESSURE RECO	RDER NO.	ITT Barton		242E-47061		
TEM	PERATURE RECO	RDER NO.	ITT Barton	<u> </u>	242E-55357	·	
	1	[
	1	AMBIENT		GALLONS			
TIME	PRESSURE	TEMP	TEMP	INJECTED		COMMENTS	
10:15 AM	(PSIG)	(°F)	(°F)	(GAL)	(GAL)	0. 441. 0	T4
	985.5	61.0	61.0	N/A	N/A	Start 4 Hour Strength	lest
10:30 AM 10:45 AM	985.5 985.5	63.5	61.0	,,	<u> </u>		
11:00 AM	985.5	63.5	61.0				
11.15 AM	985.5	63.0 63.0	61.0	*			
11:30 AM	985.5	63.0	61.0 61.0				
11:45 AM	985.5	64.0	61.0	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
12.00 PM	985.5	65.0	61.0				
12.00 FM	985.5	65.0	61.0				
12:30 PM	985.5	65.5	61.0		-		
12:45 PM	985.5	66.0	61.0		**		
1:00 PM	985.5	66.5	61.0	n	*		
1:15 PM	985.5	66.5	61.0		-		
1:30 PM	985.5	66.5	61.0	8	н		
1:45 PM	985.5	67.0	61.0	н	*		
2:00 PM	985.5	67.5	61.0				
2:15 PM	985.5	67.5	61.0	- "	77	End 4 Hour Strength T	est
	· · · · · · · · · · · · · · · · · · ·						

		M	OBIL PIP	PE LINE CO	MPANY		
						FROM	то
IYDROSTATIO	PRESSURE TEST	DATA SHE	ET		DATE:	3/13/2006	3/13/2006
	TEST NUMBER:	Section 25			TIME:	3:30 PM	7:30 PM
	DESCRIPTION	CAT Miles	ON Carda	Dina Line De	daka II da C	amianna TV	
	DESCRIPTION:	MP 66.64			ROKE, IL IO C	OTSICEITAL, IA	
		Leak Test		· · · · · · · · · · · · · · · · · · ·			
				· · · · · · · · · · · · · · · · · · ·			
	DEADWEIGHT TE	ESTER NO.	Chandler		25602		
	PRESSURE RECO				242E-47061		
TEN	APERATURE RECO	RDER NO.	ITT Barton		242E-55357	,	
		AMBIENT	PIPE	GALLONS	GALLONS		
TIME	PRESSURE	TEMP	TEMP	INJECTED	BLED OFF	COMMENTS	
	(PSIG)	(°F)	(°F)	(GAL)	(GAL)		
3:30 PM	885.0	68.5	61.0	N/A	N/A	Start 4 Hour Leak Tes	st .
3:45 PM	885.0	68.5	61.0		**		
4 00 PM	885.0	69.0	61.0	Ħ			
4.15 PM	885.0	69.0	61.0	q	**		
4 30 PM	885.0	69.0	61 0	*	"		···
4·45 PM	885.0	68.0	61.0	•	•		
5:00 PM	885.0	67.5	61.0		*		
5 15 PM	885.0	67.0	61.0				
5:30 PM	885.0	66.0	61.0		*		
5:45 PM	885.0	65.0	61.0				
6:00 PM	885.0	64.5	61.0	•	*		
6:15 PM	885.0	64.0	61.0	"			
6 30 PM	885.0	63.5	61.0	"	*		
6:45 PM	885.0	63.0	61.0	•	"		
7:00 PM	885.0	61.5	61.0	,	**		
7:15 PM	885.0	60.5	61.0	"	*		
7:30 PM	885.0	60.0	61.0			End 4 Hour Leak Test	
	1	1					

HYDROSTATIC PRESSURE TEST

647 Miles / 20" Crude Pipe Line, Patoka, IL to Corsicana, TX

Test Section 26

Canton, TX

MP 66.64 - MP 27.49

Memorandum

Date: 4/28/06 Subject: Hydrotest Review & Endorsement

To: <Hydrotest Report and HCA cc: <>

Baseline Assessment File>

From: < Chris Gorman>

I've completed the review of the hydrostatic test report for Test Section - 26 (H26) for the Corsicana to Patoka Crude Line. It is consistent with my knowledge of the testing operations and facility and confirms we had a good test. The hydrotest and report documentation are accurate and thorough and will satisfy our needs for Data Integration, Risk & Threat Analysis, and Preventive & Mitigative Measures Analysis needed to comply with the HCA regulations and the testing requirements of DOT CFR Title 49, Part 195, Subpart E.

Chris D. Gorman

Pipeline Risk & Integrity Specialist Exxon Mobil Pipeline Company

Any Gorman

1604 South 15th St. Corsicana, TX 75110 903-654-5323 903-654-5302 fax

903-654-1324 cell

647 Miles / 20" Crude Line, Patoka, IL to Corsicana, TX Test Section 26 MP 66.64 - MP 27.49

Date and Time:

March 13, 2006, from 8:15 AM to 12:15 PM. - (Strength Test) March 13, 2006, from 2:15 PM to 6:15 PM. - (Leak Test)

Facility Tested:

The test section consisted of 38.78 miles of 20"x 0.312" w.t., X-42 ERW pipe

Personnel Present:

Conducted by: C. J. Carter - Test Engineer - BJ Process & Pipeline Services Witnessed by: Ricky Boulware - EMPCO - Test Site Inspector

Procedure:

On March 12, 2006, the piping was filled with water and the air was allowed to bleed through 2" valves. The test section was filled with water by moving water from previously hydrotested sections. The test section was pressurized to approximately 700 psig with BJ's positive-displacement pump at a rate of 15 psi/minute, and was allowed to stabilize over night. The test manifold, pressure recorder, and deadweight tester were connected to the test section as shown in the attached sketch.

The test section was pressurized at a rate of 10 psi/minute to 846 psi (approximately 80% of strength test pressure) by injecting water at MP 66.64 with a positive-displacement pump. Pressurization was halted for approximately 30 minutes while waiting for daylight and to allow for stabilization. The test section was then pressurized at a rate of 5 psi/min to test pressure of 1073 Psi. The pressure stabilized at 8:15 AM on March 13, 2006 at 1073.5 psi and the 4 hour strength test commenced. Once the 4 hour strength test was deemed successful, the pressure was then reduced by 100 psi. The pressures stabilized at 971 psi at 2:15 PM and the 4 hour leak test began.

Conclusion:

The strength test started at 8:15 AM on March 13th, 2006 and was held for 4 hours starting at a pressure of 1073.5 psi. Over the duration of the strength test, there was a pressure gain of 1.5 psi.

The leak test started at 2:15 PM on March 13th, 2006 and was held for 4 hours starting at a pressure of 871 psi. Over the duration of the leak test, there was a pressure gain of 1.5 psi. At this point the leak test was deemed successful.

The pressure trends over the duration of the leak test are within the accuracy of the instrumentation or within calculated fluctuations caused by temperature changes. The tests were deemed successful

Therefore, in my judgment, this constitutes a valid pressure test meeting the requirements of the Department of Transportation Code of Federal Regulations Title 49, Part 195 Subpart E.

Curtis J. Carter
Testing Engineer
BJ Process & Pipeline Services

CARRIER NAME Mobil Pipeline Company
TESTING COMPANY NAME BJ Process & Pipeline Services
PRESSURE TEST NUMBER Test Section 26 Strength Test DATE 3/13/2006
THIS IS TO CERTIFY THAT THE PIPE LINE OR PIPELINE SECTION DESCRIBED BELOW WAS HYDROSTATICALLY PRESSURE TESTED IN ACCORDANCE WITH THE FOLLOWING PROCEDURE:
PIPE LINE 20" Crude FROM Patoka, IL TO Corsicana, TX
DESCRIPTION OF FACILITY TESTE Test Section 26 MP 66.64 - MP 27.49
SECTION LENGTH 38.78 miles PIPE O.D. 20" WALL THICKNESS 0.312" GR. X-42 TYPE ERW
LOCATION OF TEST PRESSURE RECORDER CONNECT MP 66.64 (See attached sketch)
LOCATION OF TEMPERATURE RECORDER BULB MP 66.64 (See attached sketch)
INITIAL PRESSURE AT POINT OF TEST 1073.0 psig TIME 8:15 AM
INITIAL TEMPERATURE OF TEST SECT. 67.0 °F ELEV. AT POINT OF TEST 360 ft MSL
INITIAL PRESSURE AT LOWEST ELEVATION POINT IN SECTION 1081.7 PSIG;
ELEVATION 340 ft MSL; MP. 63.92 THE PRESSURE WAS MEASURED X CALCULATED
INITIAL PRESSURE AT HIGHEST ELEVATION POINT IN SECTION 989.9 PSIG;
ELEVATION 552 ft MSL; MP. 48.50 THE PRESSURE WAS MEASURED X CALCULATED
FINAL PRESSURE AT POINT OF TEST 1074.5 PSIG TIME 12:15 PM
FINAL TEMPERATURE OF TEST SECT. 66.5 °F
TOTAL FLUID INJ. N/A GAL. TOTAL FLUID WITHDRAWN N/A GAL.
NET CHANGE IN VOLUME OF THE TEST SECT N/A GAL.
LENGTH OF TEST 4 HRS. 0 MIN; TESTING FLUIL Water SPEC GVTY. 1.00 TEMP. N/A °F
INITIAL PRESSURE 82 % OF SMYS AT THE TEST SITE 76 % AT HIGH POINT 83 % AT LOW POINT.
MINIMUM TEST PRESSURE DURING A SELECTED 4 HOUR PERIOD (TEST PRESSURE) 1073.0 PSIG
MAXIMUM ALLOWABLE OPERATING PRESSURE 858 PSIG. at test site. BASED ON % SMYS OR _80% of minimum test pressure at test site.
WERE THERE ANY LEAKS? YES X NO; IF YES, EXPLAIN
WAS EVERY COMPONENT THAT WILL BE SUBJECTED TO THE SYSTEM WORKING PRESSURE
HYDROSTATICALLY TESTED? X YES NO; IF NO, EXPLAIN
TES NO, PRO, EXPLAIN
PRESSURE RECORDER MAKE AND SERIAL N_Chandler 23087 ITT Barton 242E-51492
TEMPERATURE RECORDER MAKE AND SERIAL NC TT Barton 242E-51492 ITT Barton 242E-46150
REMARKS: Tested in accordance with D.O.T. CFR Title 49 Part 195 Subpart E.
CONDUCTED BY Curtis Carter TITLE BJ PPS Test Engineer
CERTIFIED BY Chris Gorman Cheu Journal TITLE Risk & Integrity Specialist, EMPCo
WITNESSED BY Ricky Boulware TITLE EMPCO Test Site Inspector
WITNESSED BY Johnson TITLE K+IS NOTE: SEE DOT LIQUIDS MANUAL on the and we teleconfirmence

CARRIER NAME Mobil Pipeline Company	
TESTING COMPANY NAME BJ Process & Pipeline Services	
PRESSURE TEST NUMBER Test Section 26 Leak Test	DATE 3/13/2006
THIS IS TO CERTIFY THAT THE PIPE LINE OR PIPELINE SECTION DESC PRESSURE TESTED IN ACCORDANCE WITH THE FOLLOWING PROCEI	
PIPE LINE 20" Crude	FROM Patoka, IL TO Corsicana, TX
DESCRIPTION OF FACILITY TESTE Test Section 26 MP 66.64	
SECTION LENGTH 38 78 miles PIPE O.D. 20" WALL THIC	CKNESS 0.312" GR. X-42 TYPE ERW
LOCATION OF TEST PRESSURE RECORDER CONNECTION MP 66.64	(See attached sketch)
LOCATION OF TEMPERATURE RECORDER BULB MP 66.64	(See attached sketch)
INITIAL PRESSURE AT POINT OF TEST 971.0 psig	TIME 2.15 PM
INITIAL TEMPERATURE OF TEST SECT. 66.0 °F ELEV. AT F	POINT OF TEST N/A MSL
INITIAL PRESSURE AT LOWEST ELEVATION POINT IN SECTION	N/A PSIG;
ELEVATION N/A MSL; MP. N/A THE PRESSURE WAS	MEASURED CALCULATED
INITIAL PRESSURE AT HIGHEST ELEVATION POINT IN SECTION	N/A PSIG;
ELEVATION N/A MSL; MP. N/A THE PRESSURE WAS	MEASURED CALCULATED
FINAL PRESSURE AT POINT OF TEST 972.5 PSIG	TIME 6:15 PM
FINAL TEMPERATURE OF TEST SECT. 66.0 °F	
TOTAL FLUID INJ. N/A GAL. TOTAL FLUID WITH	DRAWNN/AGAL.
NET CHANGE IN VOLUME OF THE TEST SECT. N/A GAL.	
LENGTH OF TEST 4 HRS. 0 MIN; TESTING FLUID Water	SPEC GVTY. 1.00 TEMP. N/A °F
INITIAL PRESSURE N/A % OF SMYS AT THE TEST SITE N/A % AT H	HIGH POINT N/A % AT LOW POINT.
MINIMUM TEST PRESSURE DURING A SELECTED 4 HOUR PER	RIOD (TEST PRESSURE) 971.0 PSIG
MAXIMUM ALLOWABLE OPERATING PRESSURE 858 PSIG. OR 80% of minimum test pressure of 1073.0 psig at the test sit	at test site BASED ON % SMYS te during the 4 hour strength test.
WERE THERE ANY LEAKS? YES X NO; IF YES, E	XPLAIN
WAS EVERY COMPONENT THAT WILL BE SUBJECTED TO THE SYSTEM	WORKING PRESSURE
HYDROSTATICALLY TESTED? X YES NO; IF NO, E	XPLAIN
PRESSURE RECORDER MAKE AND SERIAL NO Chandler 23087	ITT Barton 242E-51492
TEMPERATURE RECORDER MAKE AND SERIAL NO. ITT Barton	242E-51492 ITT Barton 242E-46150
REMARKS: Tested in accordance with D.O.T. CFR Title 49 Part 195 Subpa	
CONDUCTED BY Curtis Carter	TITLE BJ PPS Test Engineer
CERTIFIED BY Chris Gorman River Journal	TITLE Risk & Integrity Specialist, EMPCo
WITNESSED BY Ricky Boulware	TITLE EMPCO Test Site Inspector
NOTE: SEE DOT LIQUIDS MANUAL TO CASE STORY TO THE SEE DOT LIQUIDS MANUAL TO CASE STORY TO THE SECOND	TITLE R+IS
and the proof of the context and	•

		M	OBIL PIP	E LINE CO	MPANY		
						FROM	то
IYDROSTATIC	PRESSURE TEST	DATA SHE	ET		DATE:	3/13/2006	3/13/2006
	TEST NUMBER:	Section 26	;		TIME:	8:15 AM	12:15 PM
	DESCRIPTION	R47 Miles	/ 20° Crude	Pine I ine Da	itoka II to Co	oreicona TY	
	22001111 11011		- MP 27.49	ripe cira, re	itoria, il to o	oronomia, 17	***************************************
		Strength 1					
		ou ongui					
	DEADWEIGHT TE	ESTER NO.	Chandler		23087		
	PRESSURE RECO				242E-51492		
	IPERATURE RECO				242E-46150		
		AMBIENT	PIPE	GALLONS	GALLONS		
TIME	PRESSURE	TEMP	TEMP	INJECTED	BLED OFF	COMMENTS	
	(PSIG)	(°F)	(°F)	(GAL)	(GAL)		
8:15 AM	1073.0	58.0	67.0	N/A	N/A	Start 4 Hour Strength	Test
8:30 AM	1073.0	58.0	67.0	*	*		
8:45 AM	1073.0	58.5	67.0	н			
9:00 AM	1073.0	58.5	67.0				
9:15 AM	1073.0	58.5	67.0		79		
9:30 AM	1073.5	59.0	67.0		*		
9:45 AM	1073.5	59.5	67.0	77			
10.00 AM	1073.5	60.0	67.0		9		
10 15 AM	1073.5	60.0	67.0				
10:30 AM	1073.5	60.5	67.0	Ħ			
10:45 AM	1073.5	61.5	67.0	w	н		
11:00 AM	1073.5	62.0	66.5		a		
11:15 AM	1073.5	63.0	66.5		*		
11:30 AM	1073.5	63.0	66.5	**	н		
11:45 AM	1073.5	63.0	66.5	п			
	1074.5	64.5	66.5	,			
12:00 PM 12:15 PM							

MOBIL PIPE LINE COMPANY										
						FROM	TO			
HYDROSTATIC	PRESSURE TEST	DATA SHE	ET		DATE:	3/13/2006	3/13/2006			
	TEST NUMBER:	Section 26			TIME:	2:15 PM	6:15 PM			
DESCRIPTION: 647 Miles / 20" Crude Pipe Line, Patoka, IL to Corsicana, TX										
MP 66.64 - MP 27.49										
Leak Test										
	DEADWEIGHT TE				23087					
	PRESSURE RECO				242E-51492	<u> </u>				
TEMPERATURE RECORDER NO. ITT Barton 242E-46150										
	T				····					
		AMBIENT	PIPE	GALLONS	GALLONS					
TIME	PRESSURE	TEMP	TEMP	INJECTED	BLED OFF	COMM	ENTS			
	(PSIG)	(°F)	(°F)	(GAL)	(GAL)					
2·15 PM	971.0	71.5	66.0	N/A	N/A	Start 4 Hour Leak Tes	t			
2:30 PM	971.0	71.5	66.0	4	*					
2:45 PM	971.0	72.0	66.0		•					
3:00 PM	971.0	72.0	66.0		•					
3.15 PM	971.0	71.0	66.0	H	19					
3:30 PM	971.0	73.5	66.0	*	•					
3:45 PM	971.5	71.5	66.0		*					
4:00 PM	971.5	71.0	66.0							
4:15 PM	971.5	71.5	66.0	*	*					
4:30 PM	971.5	71.5	66.0	н						
4:45 PM	971.5	72.5	66.0		-					
5:00 PM	971.5	71.0	66.0		•					
5:15 PM	972.0	66.5	66.0	H	*					
5:30 PM	972.0	65.0	66.0		*					
5:45 PM	972.0	64.0	66.0	*	#					
6:00 PM	972.5	63.0	66.0	н						
6:15 PM	972.5	62.0	66.0	n		End 4 Hour Leak Test				
		L								

HYDROSTATIC PRESSURE TEST

647 Miles / 20" Crude Pipe Line, Patoka, IL to Corsicana, TX

Test Section 27

Corsicana, Tx

MP 00.01 - MP 27.49

Memorandum

Date: 4/28/06 Subject: Hydrotest Review & Endorsement

To: <Hydrotest Report and HCA cc: <>

Baseline Assessment File>

From: <Chris Gorman>

I've completed the review of the hydrostatic test report for Test Section - 27 (H27) for the Corsicana to Patoka Crude Line. It is consistent with my knowledge of the testing operations and facility and confirms we had a good test. The hydrotest and report documentation are accurate and thorough and will satisfy our needs for Data Integration, Risk & Threat Analysis, and Preventive & Mitigative Measures Analysis needed to comply with the HCA regulations and the testing requirements of DOT CFR Title 49, Part 195, Subpart E.

Chris D. Gorman

Pipeline Risk & Integrity Specialist Exxon Mobil Pipeline Company

Aux Bornal

1604 South 15th St. Corsicana, TX 75110 903-654-5323

903-654-5302 fax

903-654-1324 cell

647 Miles / 20" Crude Line, Patoka, IL to Corsicana, TX Test Section 27 MP 00.01 - MP 27.49

Date and Time:

March 17, 2006, from 2:30 PM to 6:30 PM. (Strength Test) March 17, 2006, from 6:30 PM to 10:30 PM. (Leak Test)

Facility Tested:

The test section consisted of 27.49 miles of 20" x 0.312" w.t., X-42 ERW pipe

Personnel Present:

Conducted by: C.J. Carter - Test Engineer - BJ Process & Pipeline Services Witnessed by: Ricky Boulware - EMPCO Test Site Inspector

Procedure:

On March 17, 2006, the piping was filled with water and the air was allowed to bleed through 2" valves. The test section was filled with water by moving water from previously hydrotested sections and from a frac tank. The test manifold, pressure recorder, and deadweight tester were connected to the test section as shown in the attached sketch.

The test section was pressurized at a rate of 10 psi/minute to 846 psi (approximately 80% of strength test pressure) by injecting water at MP 0.01 with a positive-displacement pump. Pressurization was halted for approximately 30 minutes to allow for stabilization. The test section was then pressurized at a rate of 5 psi/min to test pressure of 1058 psi. The pressure stabilized at 1058 psi at 2:30 PM and the 4 hour strength test commenced.

Conclusion:

The strength test started at 2:30 PM on March 17th, 2006 and was held for 4 hours starting at a pressure of 1058 psi. Over the duration of the strength test, there was a continuous pressure loss due to a leaking check valve MP 23.42. During the strength test there were three (3) water injection events totaling 105 gallons performed to maintain minimum test pressures required for the desired MAOP. The leak test started at 6:30 PM on March 17, 2006 and was held for 4 hours commencing at a pressure of 1056 psi. Over the duration of the leak test, there was a pressure loss of 8.0 psi – again due to the leaking check valve at MP 23.42. Immanent bad weather threatened the testing operations therefore it was decided to replace the check valve gasket after the 4 hour leak test was completed. The water leak at MP 23.42 was collected, measured and recorded and corresponded to ROPI calculations for the equivalent pressure losses. At this point both the strength test and leak test were deemed successful.

The pressure trends over the duration of the strength and leak tests are within the accuracy of the instrumentation or within calculated fluctuations caused by temperature changes.

Therefore, in my judgment, this constitutes a valid pressure test meeting the requirements of the Department of Transportation Code of Federal Regulations Title 49, Part 195 Subpart E.

Curtis J. Carter
Testing Engineer
BJ Process & Pipeline Services

CARRIER NAME Mobil Pipeline Company
TESTING COMPANY NAME BJ Process & Pipeline Services
PRESSURE TEST NUMBER Test Section 27 Leak Test DATE 3/17/2006
THIS IS TO CERTIFY THAT THE PIPE LINE OR PIPELINE SECTION DESCRIBED BELOW WAS HYDROSTATICALLY PRESSURE TESTED IN ACCORDANCE WITH THE FOLLOWING PROCEDURE:
PIPE LINE 20" Crude FROM Patoka, IL TO Corsicana, TX
DESCRIPTION OF FACILITY TESTE Test Section 27 MP 00 01 - MP 27 49
SECTION LENGTH 27.49 miles PIPE O.D. 20" WALL THICKNESS 0.312" GR. X-42 TYPE ERW
LOCATION OF TEST PRESSURE RECORDER CONNECTION MP 00.01 (See attached sketch)
LOCATION OF TEMPERATURE RECORDER BULB MP 00.01 (See attached sketch)
INITIAL PRESSURE AT POINT OF TEST 1056.0 psig TIME 6:30 PM
INITIAL TEMPERATURE OF TEST SECT. 63.7 °F ELEV. AT POINT OF TEST N/A MSL
INITIAL PRESSURE AT LOWEST ELEVATION POINT IN SECTION N/A PSIG;
ELEVATION N/A MSL; MP. N/A THE PRESSURE WAS MEASURED CALCULATED
INITIAL PRESSURE AT HIGHEST ELEVATION POINT IN SECTION N/A PSIG;
ELEVATION N/A MSL; MP. N/A THE PRESSURE WAS MEASURED CALCULATED
FINAL PRESSURE AT POINT OF TEST 1048.0 PSIG TIME 10:15 PM
FINAL TEMPERATURE OF TEST SECT. 63.5 °F
TOTAL FLUID INJ. 0 GAL. TOTAL FLUID WITHDRAWN 65.3 GAL.
NET CHANGE IN VOLUME OF THE TEST SECT. (65.3) GAL.
LENGTH OF TEST 4 HRS, 0 MIN; TESTING FLUID Water SPEC GVTY. 1.00 TEMP. 60 °F
INITIAL PRESSURE N/A % OF SMYS AT THE TEST SITE N/A % AT HIGH POINT N/A % AT LOW POINT.
MINIMUM TEST PRESSURE DURING A SELECTED 4 HOUR PERIOD (TEST PRESSURE) 1048.0 PSIG
MAXIMUM ALLOWABLE OPERATING PRESSURE 844 PSIG. at test site BASED ON % SMYS OR 80% of minimum test pressure of 1054.5 psig at the test site during the 4 hour strength test
WERE THERE ANY LEAKS? X YES NO; IF YES, EXPLAIN Leaking bonnet gasket on check Valve at MP 23.42 Check Valve gasket was replaced after completion of test.
WAS EVERY COMPONENT THAT WILL BE SUBJECTED TO THE SYSTEM WORKING PRESSURE
-IYDROSTATICALLY TESTED? X YES NO; IF NO, EXPLAIN
PRESSURE RECORDER MAKE AND SERIAL NO Chandler 25602 ITT Barton 242E-47061
TEMPERATURE RECORDER MAKE AND SERIAL NO. <u>ITT Barton</u> 242E-47061 ITT Barton 242E-55357
REMARKS: During the 4 hour strength test injections were made to maintain minimum test pressure required for desired
MAOP Withdrawals/leaks were measured and ROPI calcs were performed only during the 4 hour leak test.
immanent bad weather threatened the testing operations so it was decided to replace the Check Valve
gasket after the test was completed. Tested in accordance with D.O.T. CFR Title 49 Part 195 Subpart E.
CONDUCTED BY Curtis Carter TITLE BJ PPS Test Engineer
CERTIFIED BY Chris Gorman Chue Johnson TITLE Risk & Integrity Specialist, EMPCo
WITNESSED BY Ricky Boulware TITLE EMPCO Test Site Inspector WITNESSED BY Chris Cormon Via Telegopterance Title Bigh & Interests Separated States
NOTE: SEE DOT LIQUIDS MANUAL Chris Gorman - Via Teleconference TITLE Risk & Integrity Specialist, EMPCo

CARRIER NAME Mobil Pipeline Company
TESTING COMPANY NAME BJ Process & Pipeline Services
PRESSURE TEST NUMBER Test Section 27 Strength Test DATE 3/17/2006
THIS IS TO CERTIFY THAT THE PIPE LINE OR PIPELINE SECTION DESCRIBED BELOW WAS HYDROSTATICALLY PRESSURE TESTED IN ACCORDANCE WITH THE FOLLOWING PROCEDURE:
PIPE LINE 20" Crude FROM Patoka, IL TO Corsicana, T
DESCRIPTION OF FACILITY TESTE Test Section 27 MP 00.01 - MP 27.49
SECTION LENGTH 27.49 miles PIPE O.D. 20" WALL THICKNESS 0.312" GR. X-42 TYPE ERW
LOCATION OF TEST PRESSURE RECORDER CONNECT MP 00.01 (See attached sketch)
LOCATION OF TEMPERATURE RECORDER BULB MP 00.01 (See attached sketch)
INITIAL PRESSURE AT POINT OF TEST 1058.0 psig TIME 2:30 PM
INITIAL TEMPERATURE OF TEST SECT. 67 0 °F ELEV. AT POINT OF TEST 417 ft MSL
INITIAL PRESSURE AT LOWEST ELEVATION POINT IN SECTION 1123.0 PSIG;
ELEVATION 267 ft MSL; MP. 18.07 THE PRESSURE WAS MEASURED X CALCULATE
INITIAL PRESSURE AT HIGHEST ELEVATION POINT IN SECTION 1047.2 PSIG;
ELEVATION 442 ft MSL; MP. 0.25 THE PRESSURE WAS MEASURED X CALCULATE
FINAL PRESSURE AT POINT OF TEST 1056 PSIG TIME 6.30 PM
FINAL TEMPERATURE OF TEST SECT. 66.5 °F
TOTAL FLUID INJ. 105 GAL. TOTAL FLUID WITHDRAWN N/A GAL.
NET CHANGE IN VOLUME OF THE TEST SECIN/AGAL.
LENGTH OF TEST 4 HRS. 0 MIN; TESTING FLUIL Water SPEC GVTY. 1.00 TEMP. 60 °
INITIAL PRESSURE 81 % OF SMYS AT THE TEST SITE 80 % AT HIGH POINT 86 % AT LOW POINT.
MINIMUM TEST PRESSURE DURING A SELECTED 4 HOUR PERIOD (TEST PRESSURE) 1054.5 PSIG
MAXIMUM ALLOWABLE OPERATING PRESSURE 844 PSIG. at test site. BASED ON % SMYS OR 80% of minimum test pressure at test site.
WERE THERE ANY LEAKS? X YES NO; IF YES, EXPLAIN Leaking bonnet gasket on check Valve at MF 23.42 Check Valve gasket was replaced after completion of test
WAS EVERY COMPONENT THAT WILL BE SUBJECTED TO THE SYSTEM WORKING PRESSURE
HYDROSTATICALLY TESTED? X YES NO; IF NO, EXPLAIN
PRESSURE RECORDER MAKE AND SERIAL N_Chandler 25602 ITT Barton 242E-47061
TEMPERATURE RECORDER MAKE AND SERIAL NC HTT Barton 242E-47061 HTT Barton 242E-55357
REMARKS: During the 4 hour strength test injections were made to maintain minimum test pressure required for desire
MAOP Withdrawals/leaks were measured and ROPI calcs were performed only during the 4 hour leak tes
Immanent bad weather threatened the testing operations so it was decided to replace the Check Valve
gasket after the test was completed. Tested in accordance with D.O.T. CFR Title 49 Part 195 Subpart E.
CONDUCTED BY Curtis Carter TITLE BJ PPS Test Engineer
CERTIFIED BY Chris Gorman Chris James TITLE Risk & Integrity Specialist, EMPCo
WITNESSED BY Ricky Boulware TITLE EMPCO Test Site Inspector
WITNESSED BY Chris Gorman - Via Teleconference Thus January Risk & Integrity Specialist, EMPCo

		M	OBIL PIP	E LINE CO	MPANY		
						FROM	то
HYDROSTATI	C PRESSURE TEST	DATA SHE	ET		DATE:	3/17/2006	3/17/2006
	TEST NUMBER:			TIME:	2:30 PM	4:30 PM	
	DESCRIPTION:	647 Miles	/ 20" Crude	Pipe Line, Pa	toka, IL to Co	orsicana, TX	
		MP 00.01	- MP 27.49				
		Strength 1	Test				
	DEADWEIGHT TE	STER NO.	Chandler		25602		
	PRESSURE RECO	RDER NO.	ITT Barton		242E-47061		
TE	MPERATURE RECO	RDER NO.	ITT Barton		242E-55357		
			,		···		
		AMBIENT	PIPE	GALLONS	GALLONS		
TIME	PRESSURE	TEMP	TEMP	INJECTED	BLED OFF	COMMENTS	
	(PSIG)	(°F)	(°F)	(GAL)	(GAL)		
2:30 PM	1058.0	71.0	67.0	N/A	N/A	Start 4 Hour Strength Test	
2:45 PM	1057.0	69.0	67.0		b	Leak found at Check 1	Valve at MP 23 42
3:00 PM	1056.0	69,0	67.0				
3:15 PM	1054.5	69.0	67.0	**	1		
	1058.0	69.0	67.0	35	и	Injected 35 gall of wat	er to bring
3:30 PM						T	
3:30 PM 3:45 PM	1057.0	69.0	67.0	•		pressure up to 1058 0	psig
	1057.0 1056.0	69.0 69.0	67.0 67.0	,		pressure up to 1058 0	psig
3:45 PM						pressure up to 1058 0	psig

35

35

11

*

Injected 35 gall of water to bring

Injected 35 gall of water to bring

pressure up to 1058.5 psig

pressure up to 1057.5 psig

4:30 PM

4:45 PM

5:00 PM

5:15 PM

5:30 PM

5:45 PM

6:00 PM

1055.0

1057.5

1056.5

1056.0

1055.5

1058.5

1057.5

69.0

69.0

69.0

68.0

68.0

67.0

66.0

67.0

67.0

67.0

66.5

66.5

66.5

66.5

		1 00.0	1 00.0	4 .	i	This page of the 1000.	o paria
6:15 PM	1057.0	65.5	66.5	u u			
6:30 PM	1056.0	65.0	66.5	"	"	End 4 Hour Strength	Test
		М	OBIL PI	PE LINE CO	MPANY		
						FROM	то
YDROSTATIC	PRESSURE TEST	DATA SHE	ET		DATE:	3/17/2006	3/17/2006
TEST NUMBER: Section 27					TIME:	4:30 PM	10:30 PM
	DESCRIPTION	647 Miles	/ 20" Crude	Pipe Line, Pa	itoka, IL to Co	orsicana, TX	
		MP 00.01	MP 27 49				
		Leak Test					
	DEADWEIGHT TE	STER NO.	Chandler		25602		
	PRESSURE RECO	RDER NO.	ITT Barton	ı	242E-47061		
	PERATURE RECO				242E-55357		
							·····
		AMBIENT	PIPE	GALLONS	GALLONS		

		AMBIER	PIPE	GALLONS	GALLONS	
TIME	PRESSURE	TEMP	TEMP	INJECTED	BLED OFF	COMMENTS
	(PSIG)	(°F)	(°F)	(GAL)	(GAL)	
6:30 PM	1056.0	65.0	63.7	N/A	N/A	Start 4 Hour Leak Test
6:45 PM	1055.5	65.0	63.7	-1	"	
7:00 PM	1055.0	65.0	63.7	"	11	Straight Line Pressure drop due to
7:15 PM	10 54 .5	65.0	63.7		0	leaking Check Valve at MP 23 42
7:30 PM	1054.0	65.0	63.7	"	*	
7:45 PM	1053,5	65.0	63.7	#		
8:00 PM	1 05 3.0	65.0	63.7	*	**	
8:15 PM	1052.5	65.0	63.7	п	-	
8:30 PM	1052.0	65.0	63.7	n	4	·
8:45 PM	1051.5	65.0	63.7	15	*	
9:00 PM	1051.0	64.5	63.5		*	
9:15 PM	1050.5	64.0	63.5	Đ	"	**
9:30 PM	1050.0	64.0	63.5	"	-	-
9:45 PM	1049.5	64.0	63.5		и	
10:00 PM	1049.0	64.0	63.5		7	
10:15 PM	1048.5	63.5	63.5	11	"	9
10:30 PM	1048.0	63.0	63.5	"	"	End 4 Hour Leak Test